Print Server

User’s Manual

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1. Introduction

1.1 Product Introduction

Thank you for purchasing and using our print server. This print server allows your printer to become a shared device on the network. It offers printing flexibility and manageability on your Local Area Network at an extremely low cost and with an absolute minimum setup and maintenance required.

This print server provides a network port (10/100Mbps Ethernet), two USB ports and one parallel port for printers.

This print server supports IPX, TCP/IP and AppleTalk protocols. It is the best network printing solutions for various common network operating systems such as Windows 95/98/Me Peer-to-Peer Printing, Windows NT/2000/XP, NetWare, Unix/Linux, MAC OS, etc.

With the help of Installation Wizard, you can easily and instantly complete the settings for your printing environment, and start enjoying the fantastic features provided by this print server.

In the following chapters, we will introduce in detail the printing features, installation methods, and system configuration for different network environments.

If you would like to set up and install print server quickly, please refer to the Quick Installation Guide that comes along with this print server.

1.2 Product Package

This package contains the following components:

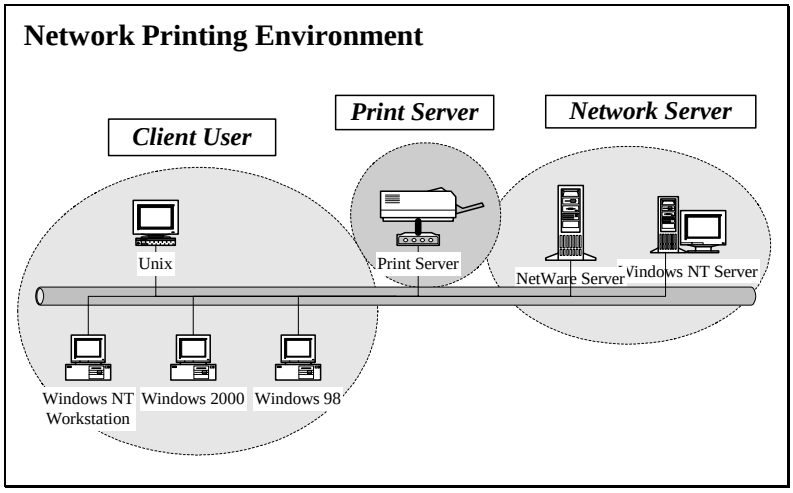
- ❑ Print Server x 1
- ❑ Power Adapter x 1
- ❑ CD x 1
- ❑ Quick Installation Guide x 1

1.3 Network Printing Architecture

This section illustrates how print server functions and operates on the network. Before you install and use print server, it is strongly suggested that you read this section completely, and select only the chapters you need according to your network operating system by “Contents of the User’s Manual” in next section.

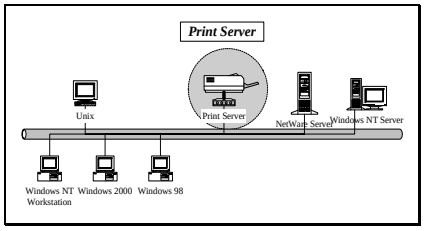
This section will first introduce the role every component plays in the network-printing environment.

- ❑ Print Server
- ❑ Client User
- ❑ Network Server (optional)

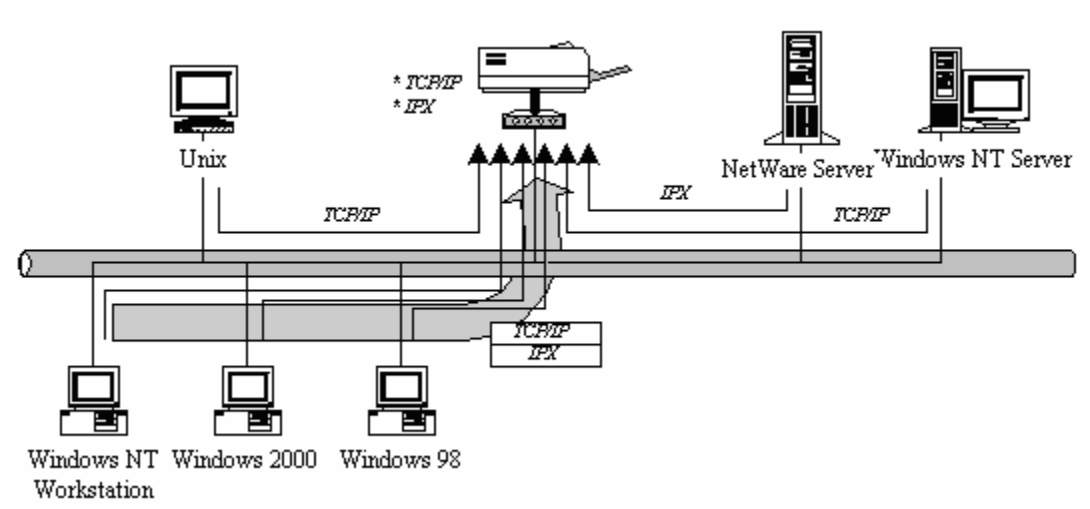


Detailed examples will then be illustrated through actual network environment.

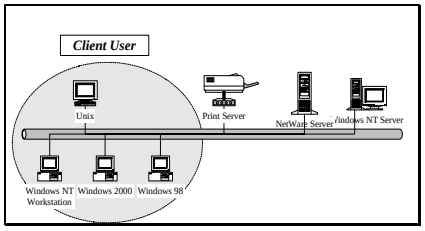
1.3.1 Print Server Network Functions



Because print server supports IPX, TCP/IP and AppleTalk network protocols, any networked computer can directly print to the print server from any of its installed protocol.



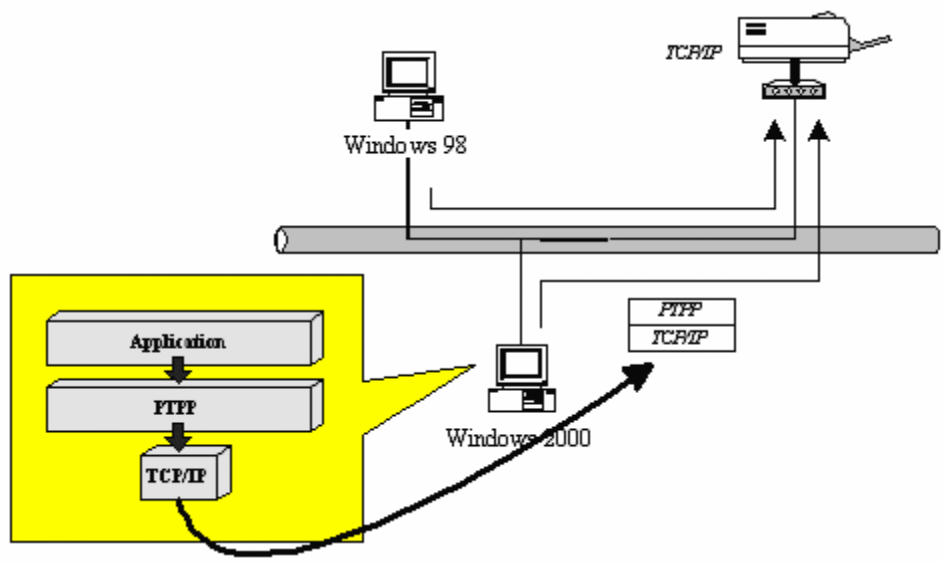
1.3.2 Network Printing Functions for Clients



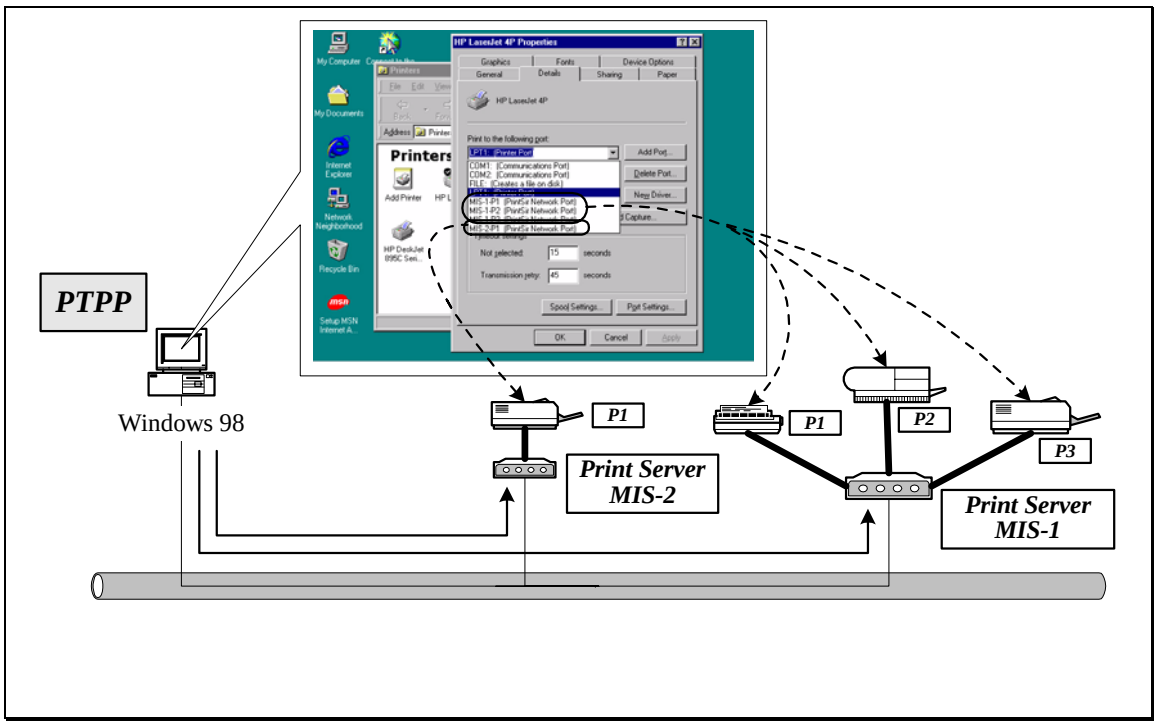
Common operating systems for clients are classified as following:

Windows 95/98/Me/NT/2000/XP

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows 95/98/NT/2000/XP users. PTPP (Peer-to-Peer Printing) supports TCP/IP protocol.



In the client installation procedure, after PTPP (Peer-to-Peer Printing Driver) is installed into Windows, the system will automatically (manual configuration is also allowed) search through all the print servers on the network, and then add their printing ports into Windows' printing port. (see below)



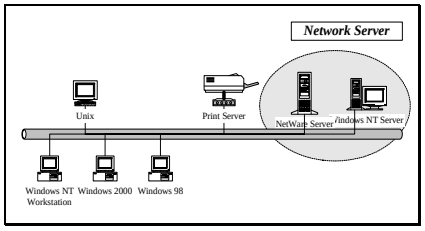
❑ UNIX / Linux

UNIX (include HP/UX, SCO Unix, SunOS, Solaris, Unixware DECUnix, IBM AIX and others) and Linux use the system-standard LPR to print to print server.

❑ MAC OS

MAC OS can use the system-standard AppleTalk network to print to print server.

1.3.3 Network Printing Functions for Network Server



Common network servers are classified as following:

- Windows NT/2000

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows NT/2000. After PTPP is installed, the server can directly print to print server. Adding this printing function into Windows NT/2000 Server allows print queue, user authority management, and many other advanced features.

- NetWare 3.x/4.x/5.x

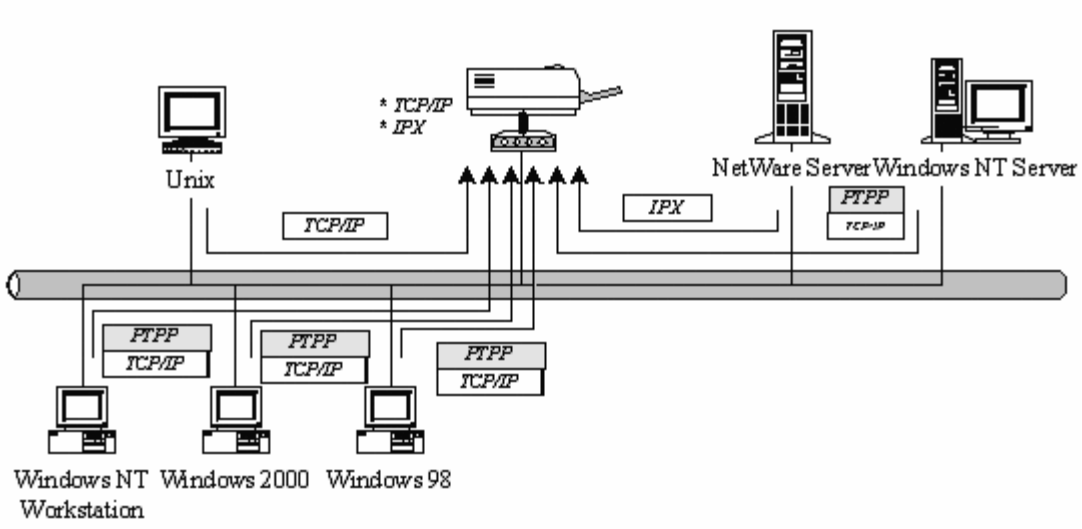
In NetWare environment, print server offers various printing modes like print queue, remote printer, etc.

1.4 Network Printing Environment

Common network environment are classified as following:

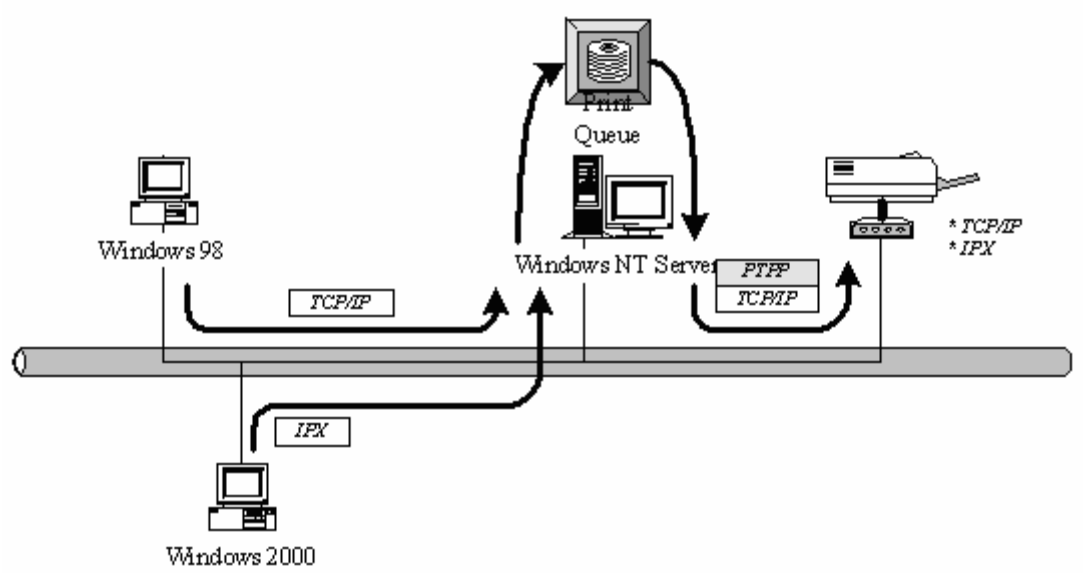
- Windows Peer-to-Peer Network

The client's PTPP driver will use TCP/IP protocol to print to print server.

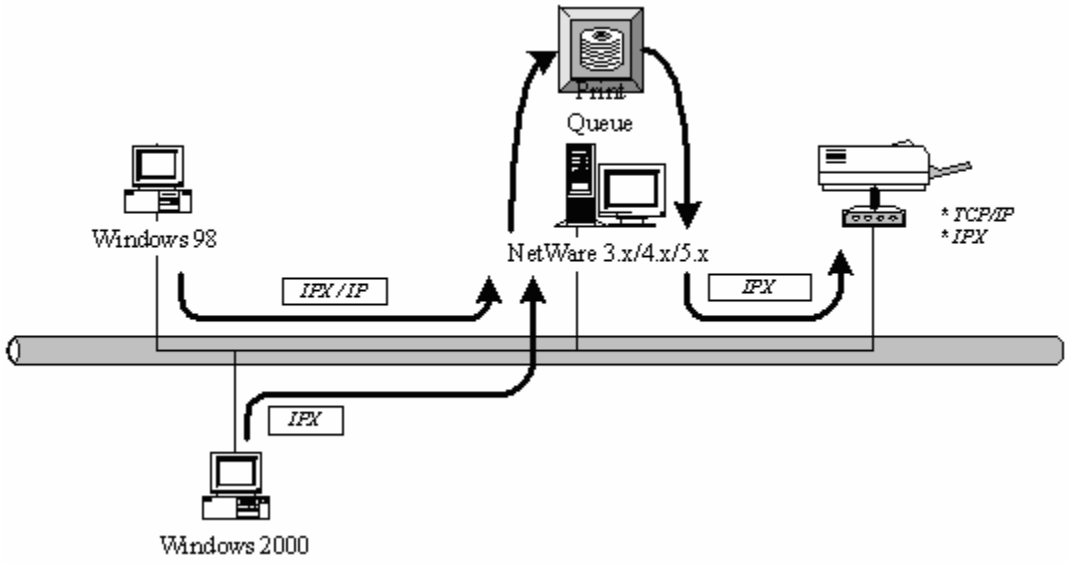


- Windows NT/2000 Network

Network printing function will become available after PTPP driver is installed into Windows NT/2000. Adding this printing function into Windows NT/2000 Server allows print queue, user authority management, and many other advanced features.



- NetWare Network (see below)



1.5 Contents of the User's Manual

Chapter 2 explains print server's hardware installation and configuration. It is strongly recommended for you to read.

The following chapters introduce:

Chapter 3. Windows Peer-to-Peer Network

Chapter 4. Windows NT/2000 Server-Based Network

Chapter 5. NetWare Network

Chapter 6. UNIX System Network

Chapter 7 and chapter 8 introduce print server's management and configuration utilities on Windows and Web Browser's environment respectively. You may select the appropriate management utility according to the administrator's computer platform.

Chapter 9 introduces the commands that can be used in print server management through Telnet.

Chapter 10 introduces Print Server's IPP Printing function and setup procedure. The IPP Printing provides a convenient way to print documents across the Internet by the IPP protocol.

Chapter 11 introduces how to setup the print server when Windows XP SP2's firewall blocks the communication of between the utility and the printer server.

1.6 Firmware & Printing Function

The print server provides a complete network printing solution. The feature set is listed below:

- PTPP (Peer-to-Peer-Printing)
  - TCP/IP (LPR)
- IPP Printing
- NetWare Bindery Printing
- AppleTalk

2. Hardware Installation

1. Unpack the print server package and check all the items listed in section 1.2.

2. Connect the print server to the printer you want to share on the network by standard USB or parallel cable.

3. Connect the power adapter to the print server.

4. The print server will perform the Power-On-Self-Test (POST) after it is powered on. The Status LED will flash 6 times to indicate that the print server is ready.

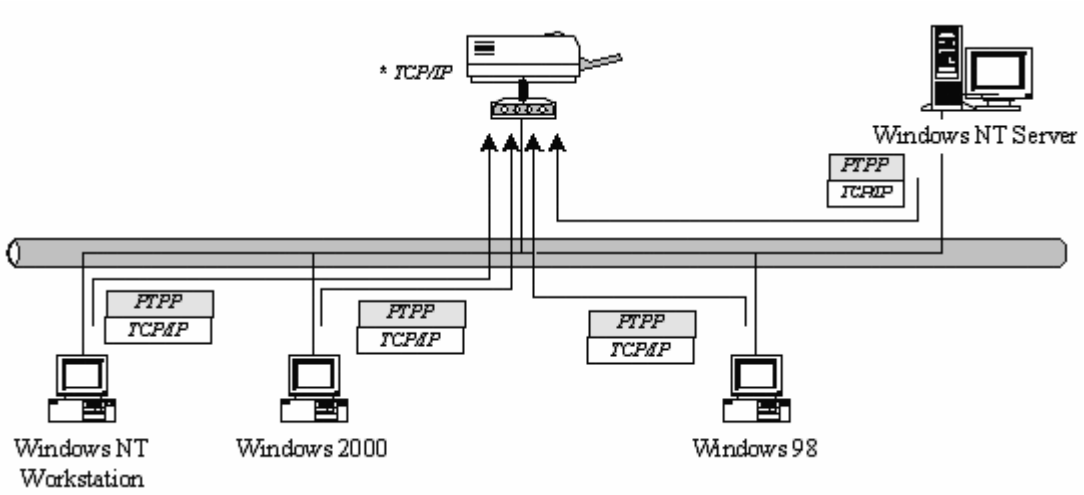
NOTE1: MUST use the power adapter shipped with the print server, do NOT use any other power adapter from any sources.

NOTE2: To prevent the compatibility problem between print server and a few printer, it is recommended that you power on the print server before the printer.

3. Windows Peer-to-Peer Network

3.1 System Architecture

Print server supports Windows Peer-to-Peer network printing mode, which is suitable for most medium and small network environments. Through quick and simple installation procedure, users can immediately enjoy the convenience of network printing.



Installation procedure is separated into following two parts:

1. Administrator Installation and Setup (refer to section 2 for more detailed information).

System administrators must :

- Install administrator's utilities into his/her computer.
- Configure print server from administrator's configuration utility.

2. Client Installation and Configuration (refer to section 3 for more detailed information).

Client users must install Windows PTPP driver (Peer-to-Peer Printing) for network printing.

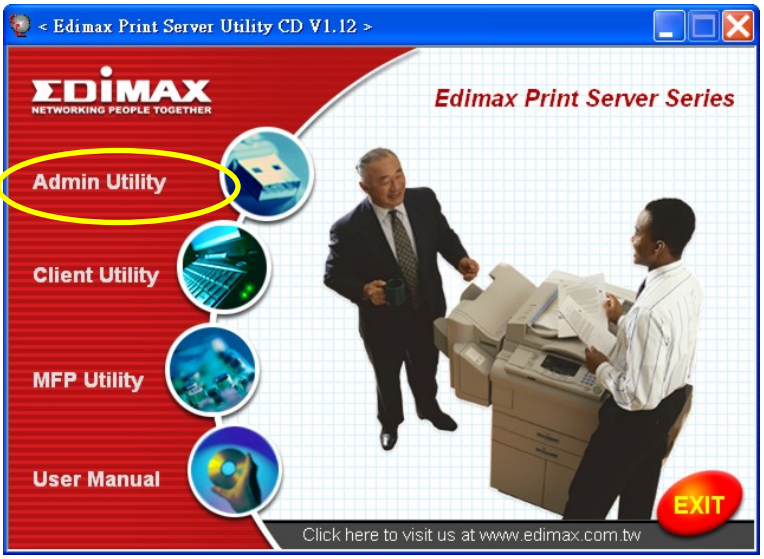
In addition, after PTPP is installed, the system will automatically search for all print servers on the network, and add the printing port of the print servers into Windows' printing port (refer to Network Printing Architecture in section 1.4 for more detailed information).

3.2 Administrator Installation and Setup

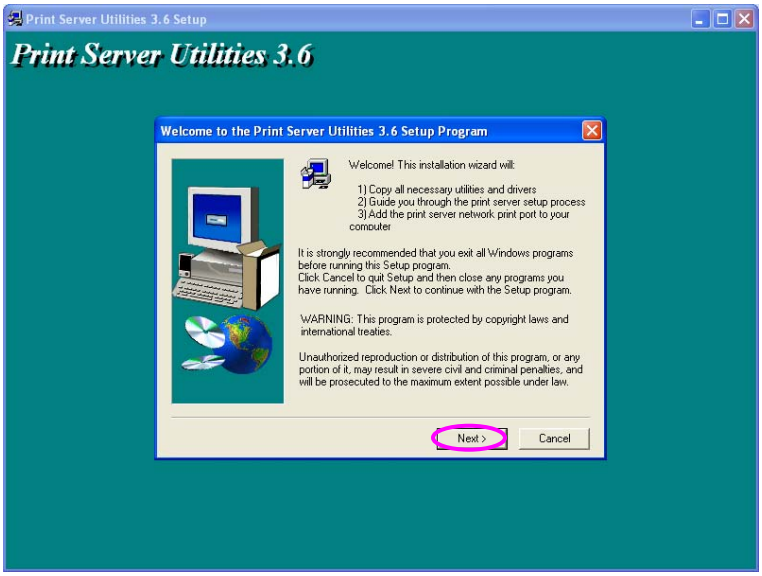
The Administrator Installation can be performed on Windows 95/98/Me/NT/2000/XP with the same user interface. Before the installation, please verify that your network protocol is installed on your PC (TCP/IP, IPX and/or NetBEUI). It will be helpful in your installation process.

1. Insert the CD shipped along with the print server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.

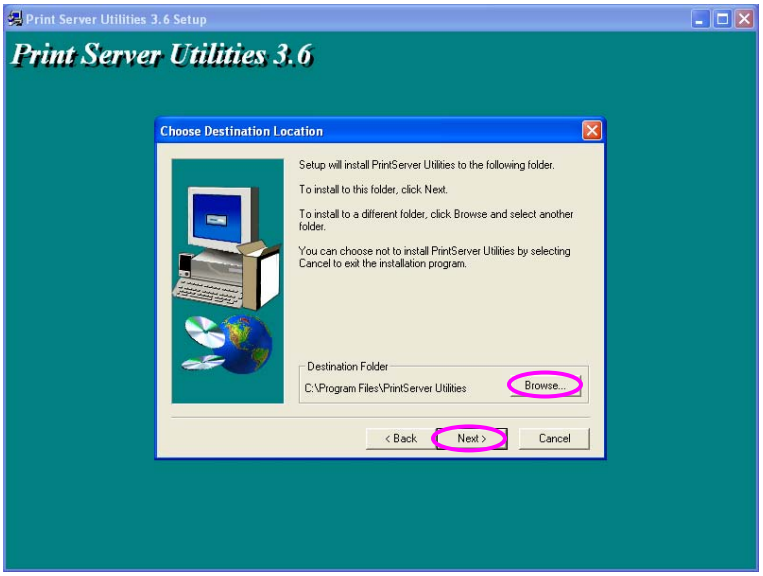
2. The "Installation Manager" will be displayed on the screen as following. Click "Admin Utility" then click "English Version".



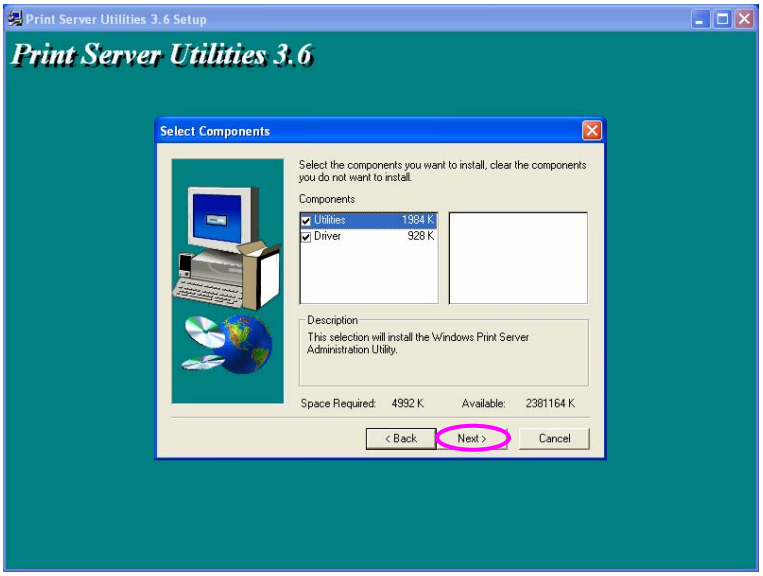
3. The “Utilities Setup” window will be displayed. Click “Next”.


Print Server Utilities 3.6 Setup
Print Server Utilities 3.6
Welcome to the Print Server Utilities 3.6 Setup Program
Welcome! This installation wizard will:
1) Copy all necessary utilities and drivers
2) Guide you through the print server setup process
3) Add the print server network print port to your computer
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright laws and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

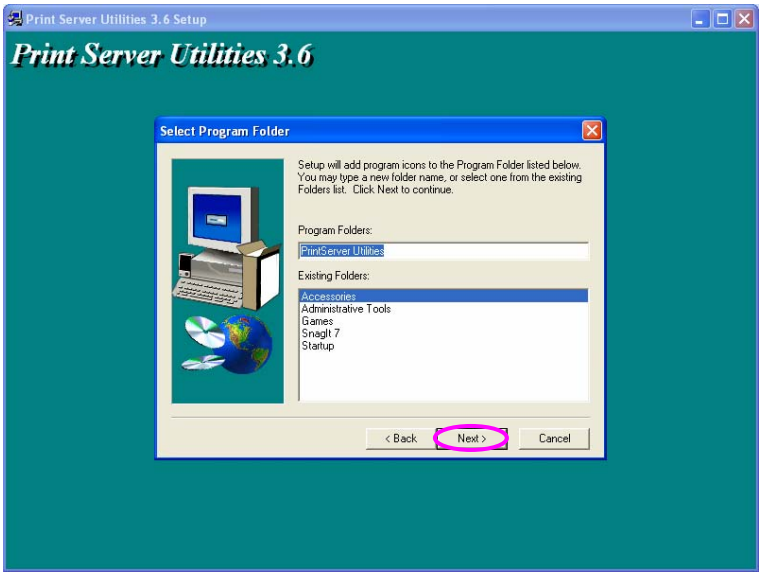
4. Click “Next” to install the utilities in the default folder or click “Browse” to specify the destination folder where you would like to install the utilities.


Print Server Utilities 3.6 Setup
Print Server Utilities 3.6
Choose Destination Location
Setup will install PrintServer Utilities to the following folder.
To install to this folder, click Next.
To install to a different folder, click Browse and select another folder.
You can choose not to install PrintServer Utilities by selecting Cancel to exit the installation program.
Destination Folder
C:\Program Files\PrintServer Utilities
Browse...
< Back
Next >
Cancel

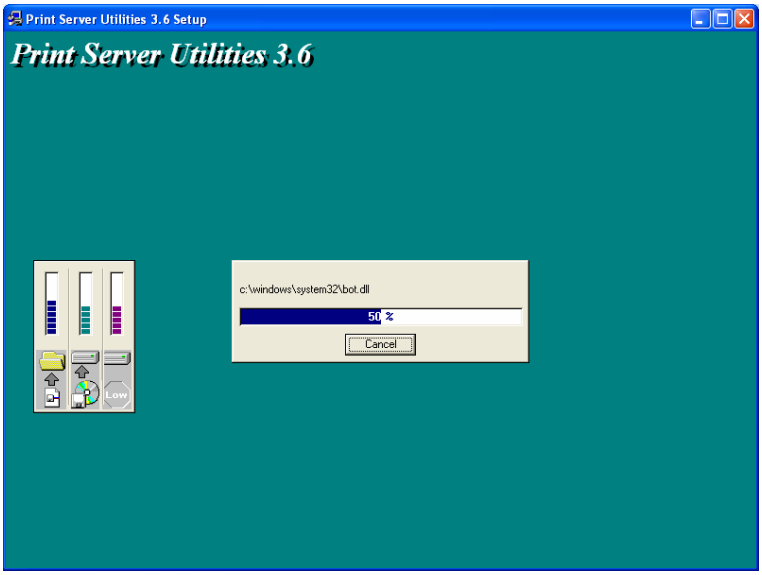
5. Select the components you want to install. It is highly recommended to install all provided components. Click “Next” to continue.


Print Server Utilities 3.6 Setup
Print Server Utilities 3.6
Select Components
Select the components you want to install, clear the components you do not want to install.
Components
Utilities 1984 K
Driver 928 K
Description
This selection will install the Windows Print Server Administration Utility.
Space Required: 4992 K
Available: 2381164 K
< Back
Next >
Cancel

6. Specify the program folder where the program icons will be added to, click “Next”.

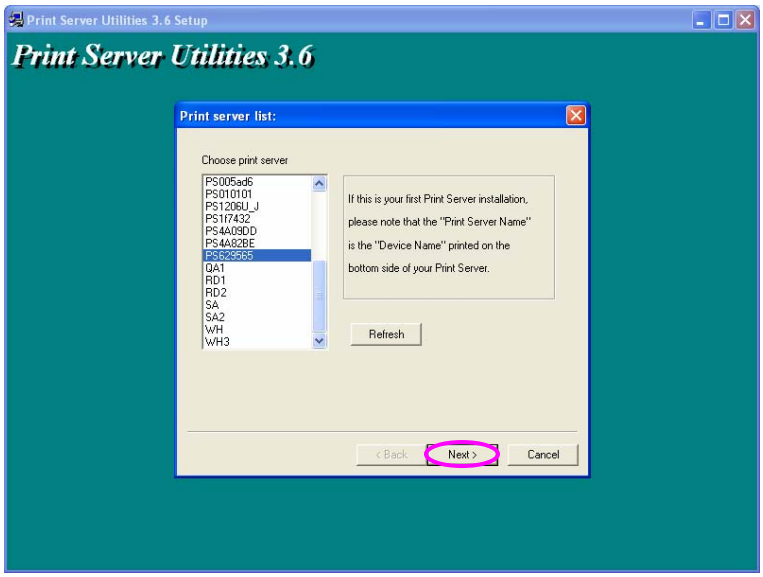

Print Server Utilities 3.6 Setup
Print Server Utilities 3.6
Select Program Folder
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing Folders list. Click Next to continue.
Program Folders:
PrintServer Utilities
Existing Folders:
Accessories
Administrative Tools
Games
SnagIt 7
Startup
< Back
Next >
Cancel

7. The system will start to install the utilities automatically.



8. You have completed the installation phase and prepare to configure the Print Server. The “Choose Print Server” will

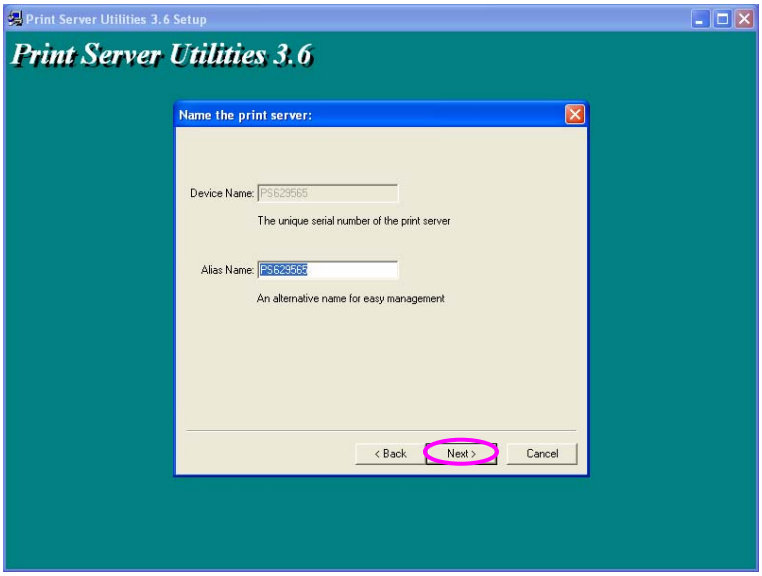
list all Print Servers within the network. Select the Print Server you would like to configure and click “Next”.



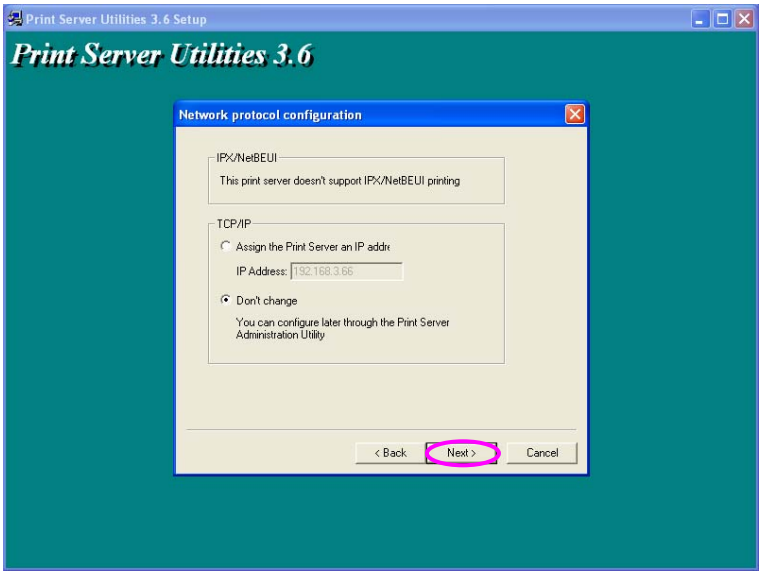
NOTE 1: If this is the first time you configure the Print Server, the “Print Server Name” is the same as the “Device Name” printed at the rear side of the print server.

NOTE 2: The list can only display the devices from the same manufacturer.

9. Specify a recognizable name for the Print Server and click “Next”.

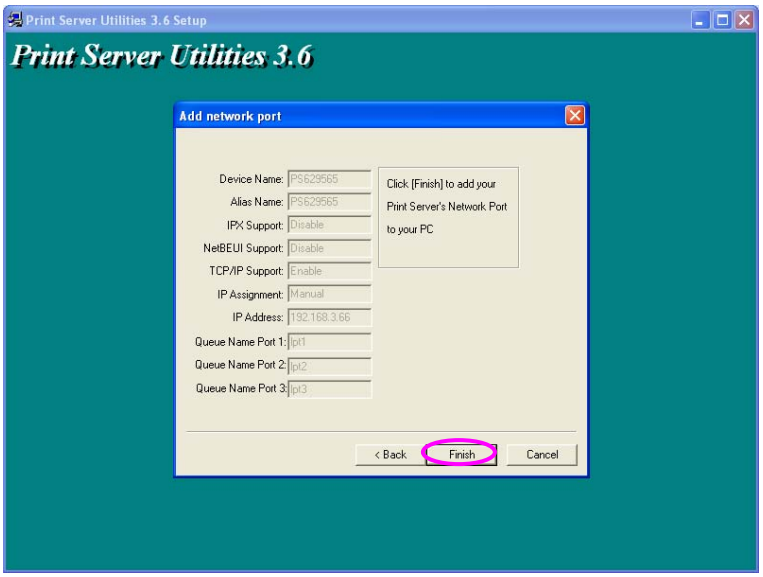

Print Server Utilities 3.6 Setup
Print Server Utilities 3.6
Name the print server:
Device Name: PS629565
The unique serial number of the print server
Alias Name: PS629565
An alternative name for easy management
< Back
Next >
Cancel

10. The “Network Protocol Configuration” will display the network protocols the Print Server is currently enabled. By default, TCP/IP is enabled, while IPX and NetBEUI are disabled. Specify the IP Address for the Print Server manually or click “Next” to keep default IP Address, i.e. 192.168.2.1.

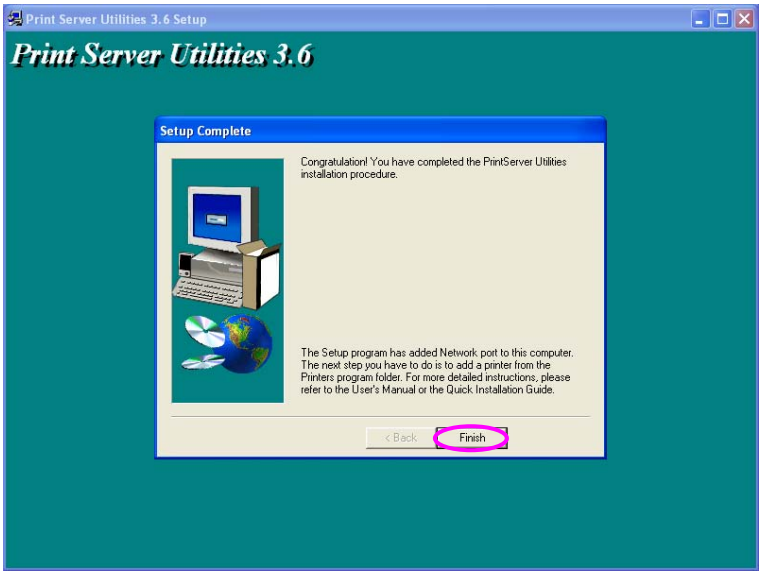

Print Server Utilities 3.6 Setup
Print Server Utilities 3.6
Network protocol configuration
IPX/NetBEUI
This print server doesn't support IPX/NetBEUI printing
TCP/IP
Assign the Print Server an IP addr
IP Address: 192.168.3.66
Don't change
You can configure later through the Print Server Administration Utility
< Back
Next >
Cancel

11. The configuration summary is displayed in the window. Now, you have completed the “Print Server Setup”.

Click “Finish” and your system will add network port of the Print Server to your PC automatically.



12. The Administrator Installation procedure is totally completed. Click “Finish”.


Print Server Utilities 3.6 Setup
Print Server Utilities 3.6
Setup Complete
Congratulation! You have completed the PrintServer Utilities installation procedure.
The Setup program has added Network port to this computer. The next step you have to do is to add a printer from the Printers program folder. For more detailed instructions, please refer to the User's Manual or the Quick Installation Guide.
< Back
Finish

The Administrator Installation Program have executed the installation procedure that performs the following tasks:

- Install all utilities and drivers to the administrator's PC.
- Configure the print server (including the print server name and network protocol)
- Add the network port of the print server to the administrator's PC.

If you want to print from this administrator's PC to the print server, all you need to do is to perform Windows' standard "Add Printer" procedure (please refer to Section 3.6).

3.3 Administrator Utilities

After Administrator Installation is completed, there will be four utilities in print server's Program folder.

- Network Ports Quick Setup – Add the network ports of print servers within the network to your PC.

- Print Server Configuration – Allows you to configure the print server's IP Address, network protocols and other advanced functions. Please refer to Chapter 7 for the detail instruction of the configuration.

- Remote Ports – Add the network port of remote printer server to your PC.

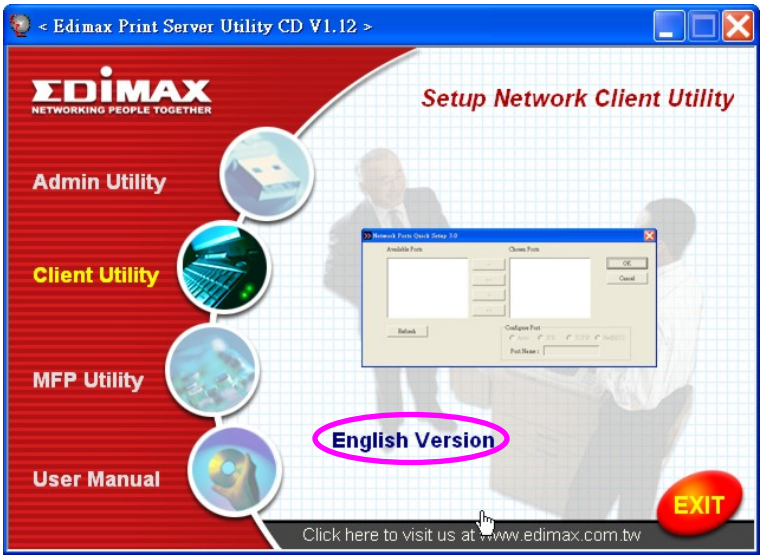
- Uninstall – Assistant for removing all installed administrator software.

3.4 Client Installation and Setup

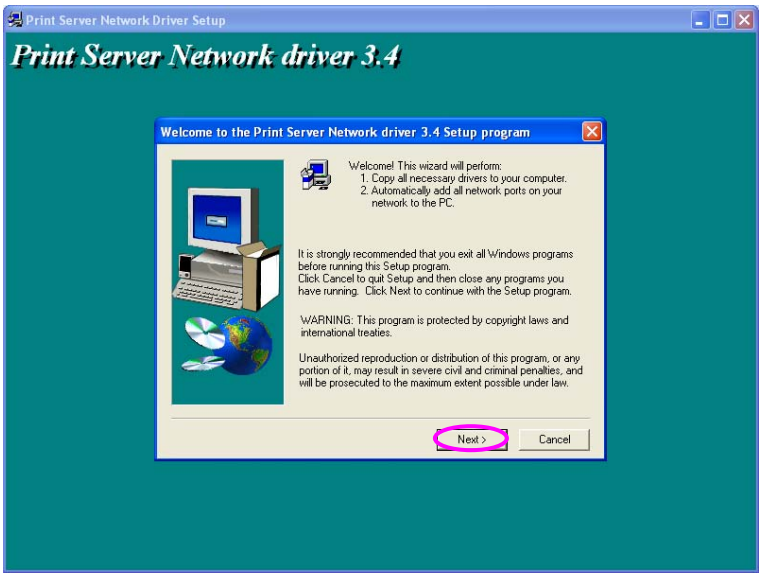
The Client Installation can be performed on Windows 95/98/Me/NT/2000/XP with the same user interface. Before the installation procedure, please confirm that your PC has connected to the network and installed at least one network protocol.

1. Insert the CD shipped along with the print server into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from CD-ROM drive's root directory.

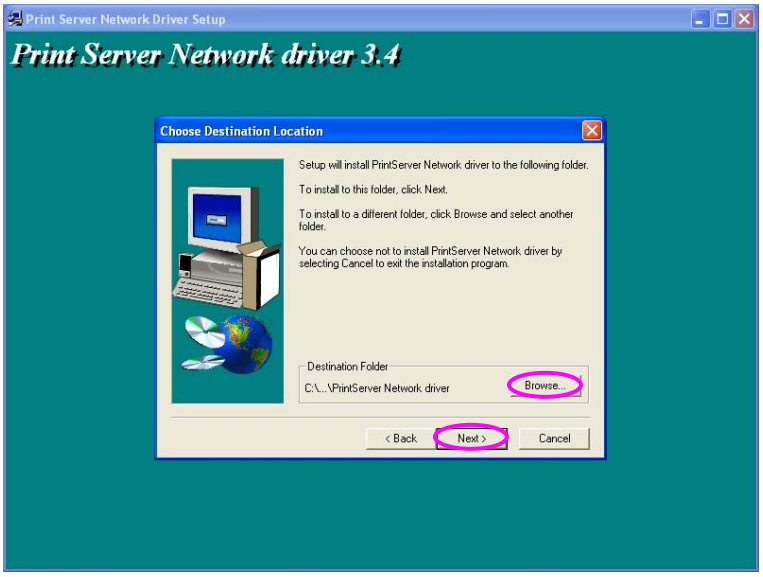
2. The "Installation Manager" will be displayed on the screen as follows. Click "Client Utility then click "English Version"".



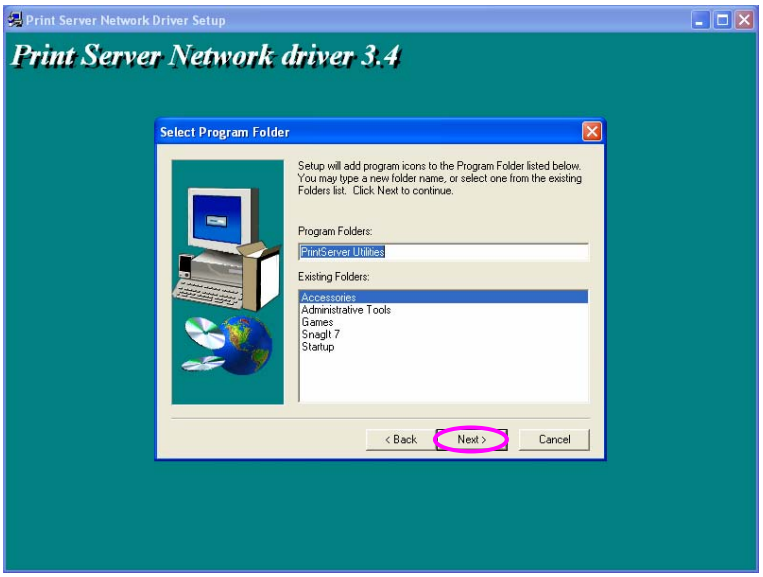
3. The “Utilities Setup” window will be displayed. Click “Next”.


Print Server Network Driver Setup
Print Server Network driver 3.4
Welcome to the Print Server Network driver 3.4 Setup program
Welcome! This wizard will perform:
1. Copy all necessary drivers to your computer.
2. Automatically add all network ports on your network to the PC.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright laws and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

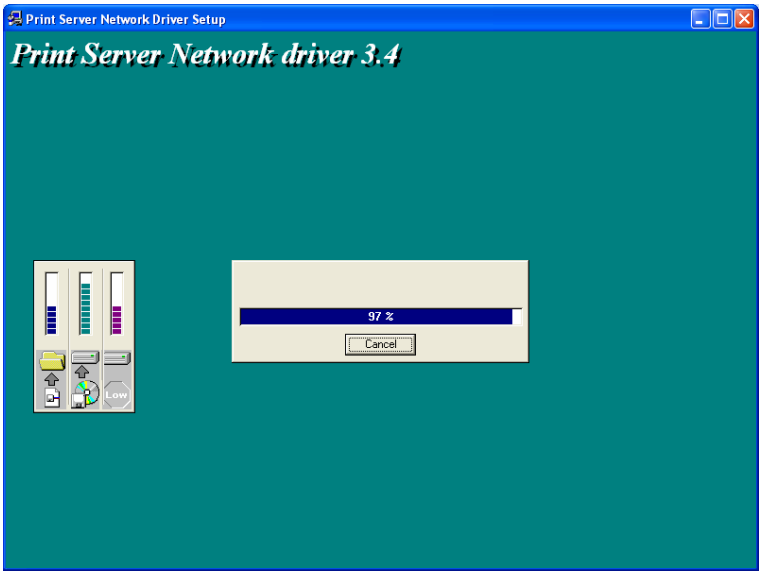
4. Click “Next” to install the utilities in the default folder or click “Browse” to specify the destination folder where you would like to install the utilities.


Print Server Network Driver Setup
Print Server Network driver 3.4
Choose Destination Location
Setup will install PrintServer Network driver to the following folder.
To install to this folder, click Next.
To install to a different folder, click Browse and select another folder.
You can choose not to install PrintServer Network driver by selecting Cancel to exit the installation program.
Destination Folder
C:\...\PrintServer Network driver
Browse...
< Back
Next >
Cancel

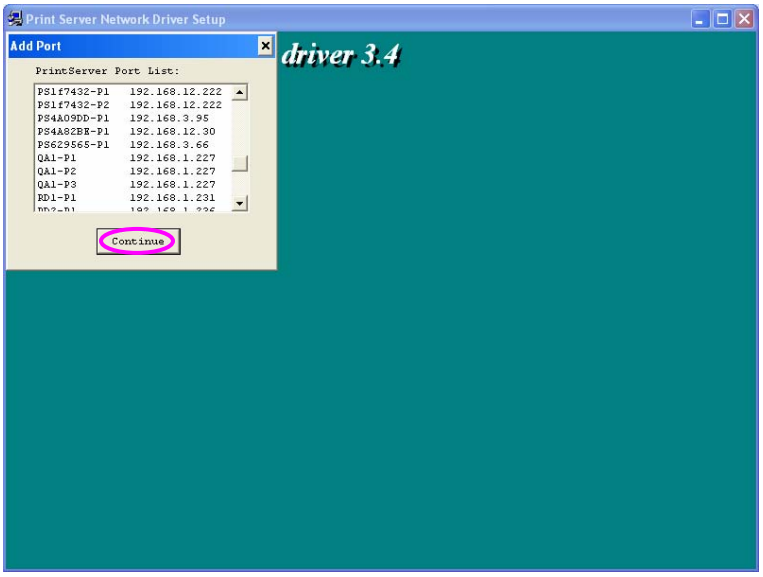
5. Specify the program folder where the program icons will be added to, click “Next”.


Print Server Network Driver Setup
Print Server Network driver 3.4
Select Program Folder
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing Folders list. Click Next to continue.
Program Folders:
PrintServer Utilities
Existing Folders:
Accessories
Administrative Tools
Games
SnagIt 7
Startup
< Back
Next >
Cancel

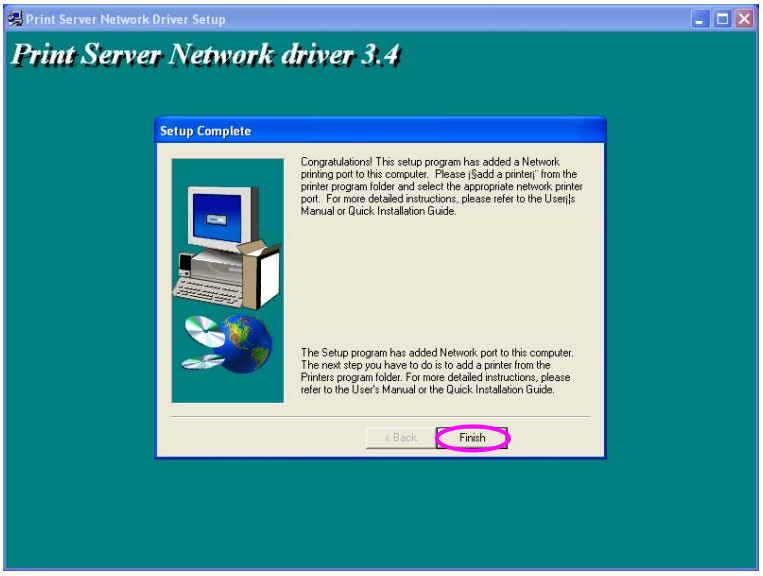
6. The system will start to install the utilities automatically.



7. Now, the installation procedure is completed, you are ready to set up the client's computer. All network ports of the Print Servers detected on the network will be added to your PC automatically, click "Continue".



8. The Client Installation procedure is completed. Click "Finish".


Print Server Network Driver Setup
Print Server Network driver 3.4
Setup Complete
Congratulations! This setup program has added a Network printing port to this computer. Please ¡Sadd a printerj" from the printer program folder and select the appropriate network printer port. For more detailed instructions, please refer to the User¡Is Manual or Quick Installation Guide.
The Setup program has added Network port to this computer. The next step you have to do is to add a printer from the Printers program folder. For more detailed instructions, please refer to the User's Manual or the Quick Installation Guide.
< Back
Finish

After the installation, you have completed the following tasks:

- Install all utilities and drivers to the client's PC.
- Add all the print server's network ports of the network to the client's PC.

You can then perform the Windows' standard "Add Printer" procedure to add network printers to your PC. Please refer to Section 3.6.

3.5 Client Utilities

After Client Installation is completed, there will be three tools in print server's Program folder.

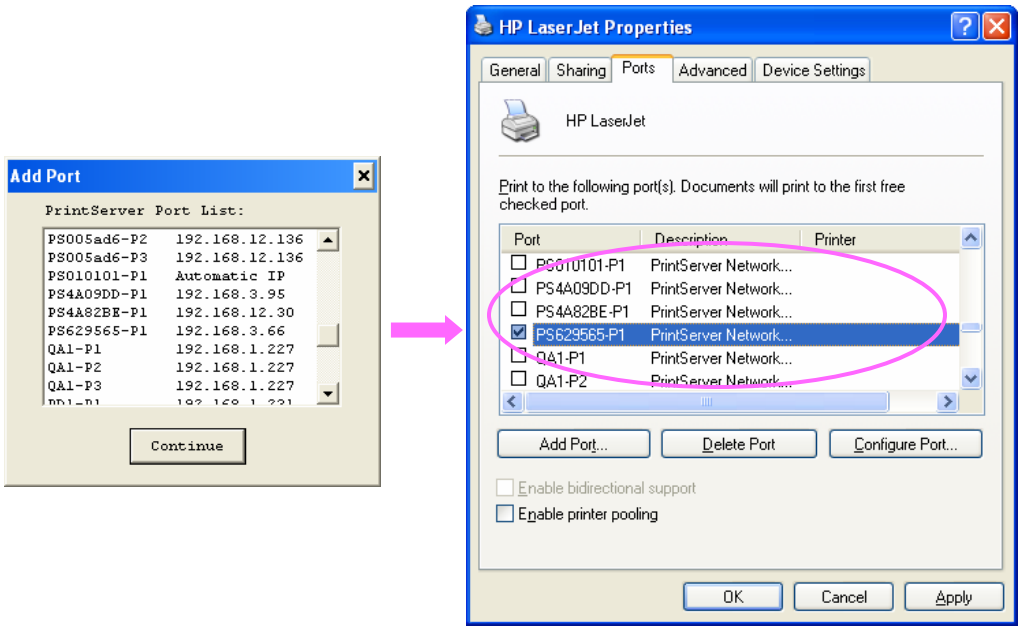
- Network Ports Quick Setup
- Remote Ports
- Uninstall Network Driver

The Uninstall Network Driver will assist you in removing all installed client software. The other two tools are described as follows.

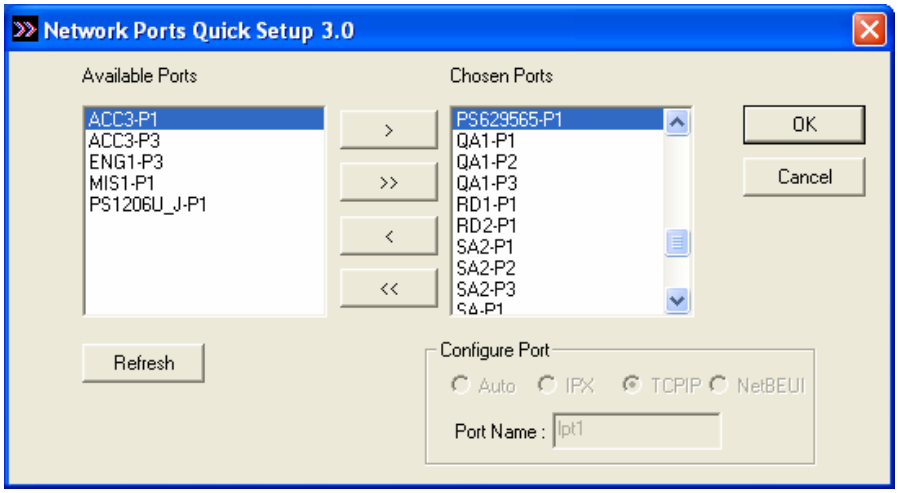
3.5.1 Network Ports Quick Setup

Network Ports Quick Setup Utility offers a very simple method to add or remove print server's printer port from the client's computer.

During the client's installation procedure, the system will automatically search for all print servers on the network, and add them into the printer ports of the client's computer (see below).



If you have just installed another new print server in the network, you must run this program first. This program will search for new print servers and allow you to add the new network printer port into client's computer conveniently. Perform the standard Add Printer procedure, then you can print directly to the printer through the newly installed print server.



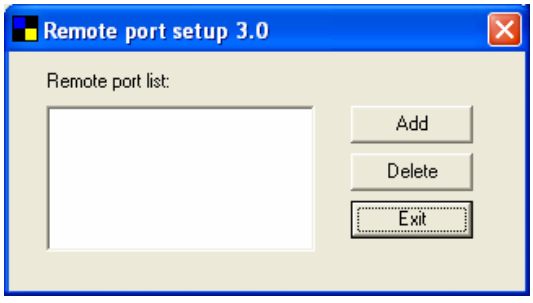
Please be aware that Network Ports Quick Setup Utility can only detect and configure all print servers on the same network, it cannot search and configure print servers on other subnets across network segments. You must use Remote Ports Utility described in the next section to manage remote (across network segments) print servers.

3.5.2 Remote Ports (Utility)

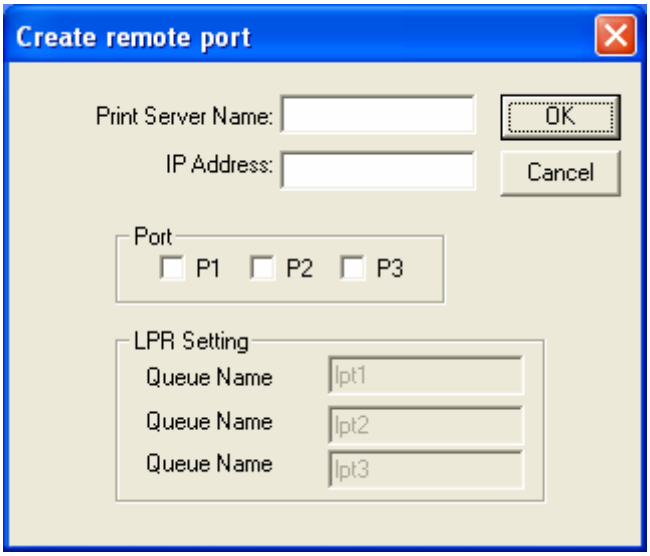
Remote Ports Utility offers a convenient way for you to manage and add printer port of the remote print server. From the assistant of this utility, you can print to other print servers outside the subnet across network segment. However, please note that this function only supports TCP/IP network protocol.

Please follow the procedures described below:

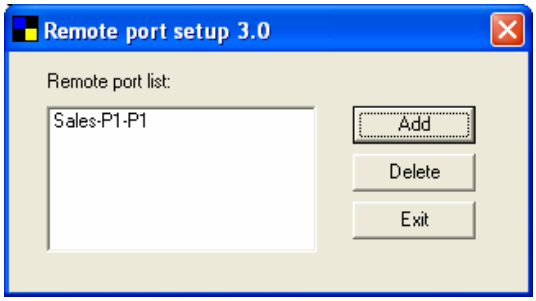
Step1. Run Remote Ports Utility. Clicks “Add” to add a remote print port.



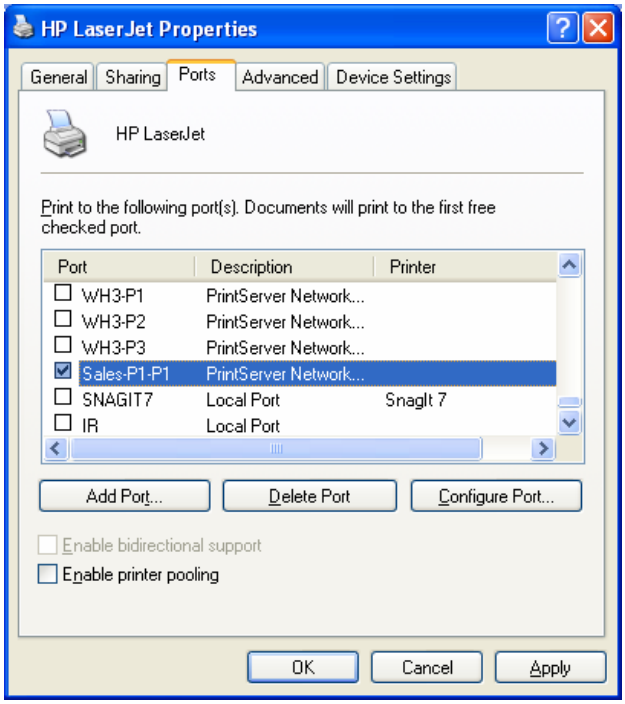
Step2. Enter print server's name, IP address, select used ports, and enter LPR queue name of each port. Click "Ok".



Step3. The new remote print port is displayed as follows.



In order to use the remote printing function, you will have to proceed with normal Add Printer procedure and select your printer port as the newly added remote printer port.


HP LaserJet Properties
General
Sharing
Ports
Advanced
Device Settings
HP LaserJet
Print to the following port(s). Documents will print to the first free checked port.
Port
Description
Printer
WH3-P1
PrintServer Network...
WH3-P2
PrintServer Network...
WH3-P3
PrintServer Network...
Sales-P1-P1
PrintServer Network...
SNAGIT7
Local Port
SnagIt 7
IR
Local Port
Add Port...
Delete Port
Configure Port...
Enable bidirectional support
Enable printer pooling
OK
Cancel
Apply

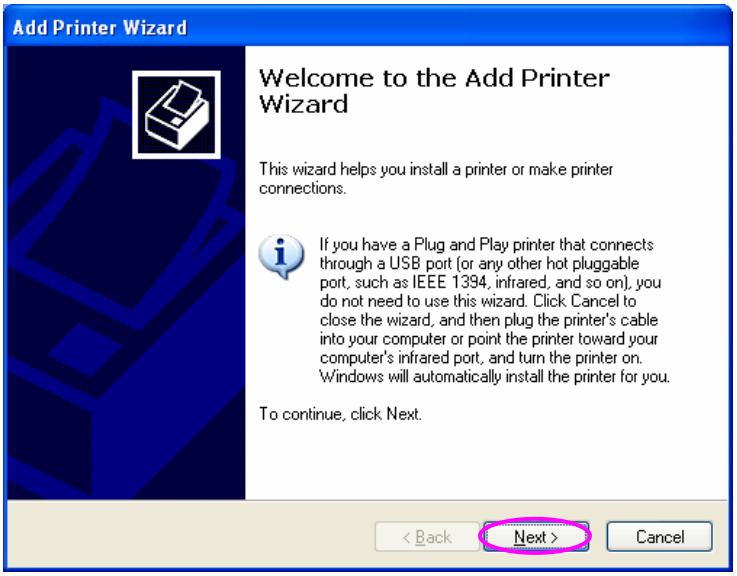
3.6 Windows Add Printer Procedure

After adding a “Network Port” of the print server to your PC by Administrator or Client Installation Program, you can follow the procedure described below to add printer to the Windows. Note that following “Add Printer” steps are running in Windows XP, the steps in other Operating Systems are similar.

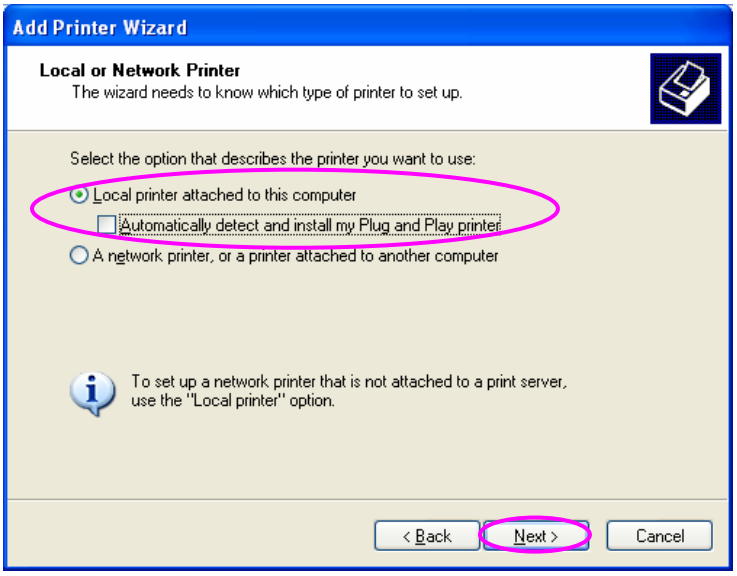
Step1. Click “Start”, choose “Settings” and select “Printers and Faxes”.

Step2. Click “Add a Printer”.

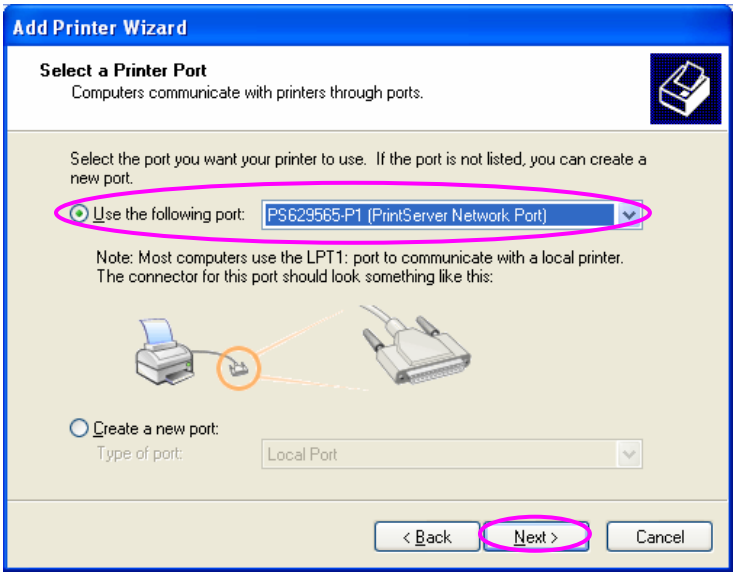
Step3. The “Add Printer Wizard” is displayed. Click “Next”.


Add Printer Wizard
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel

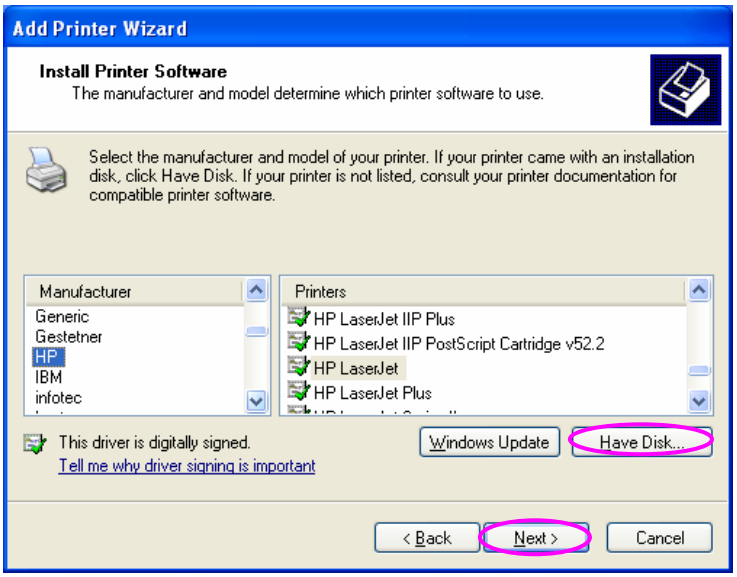
Step4. Select “Local printer attached to this computer” and make sure that “Automatically detect and install my Plug and Play printer” is not selected. Click “Next”.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

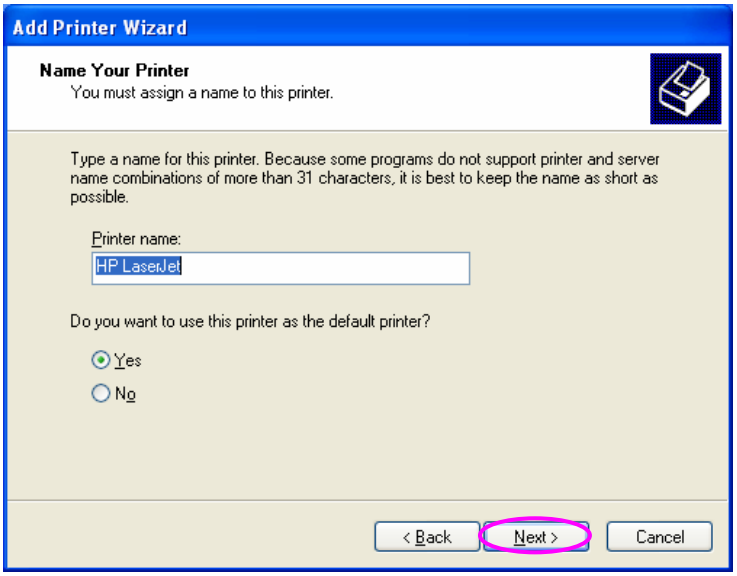
Step5. Choose the suitable “Print Server Network Port” which was created by the Administrator Installation or Client Installation process and click “Next”.


Add Printer Wizard
Select a Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
PS629565-P1 (PrintServer Network Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port:
Type of port:
Local Port
< Back
Next >
Cancel

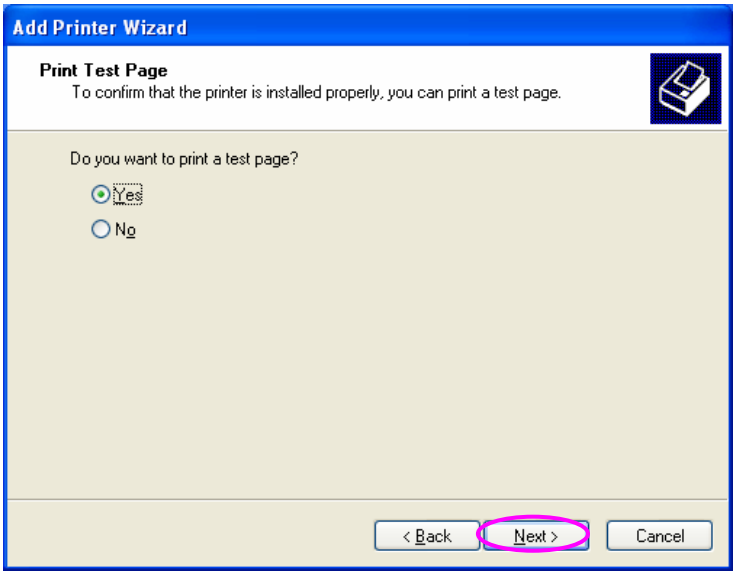
Step6. Select a suitable printer manufacturer and the printer model and click “Next”. If your printer is not in the list, click “Have Disk…” to install the driver of the printer. After installation, the printer model will be added to the list.


Add Printer Wizard
Install Printer Software
The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer
Generic
Gestetner
HP
IBM
infotec
Printers
HP LaserJet IIP Plus
HP LaserJet IIP PostScript Cartridge v52.2
HP LaserJet
HP LaserJet Plus
This driver is digitally signed.
Tell me why driver signing is important
Windows Update
Have Disk...
< Back
Next >
Cancel

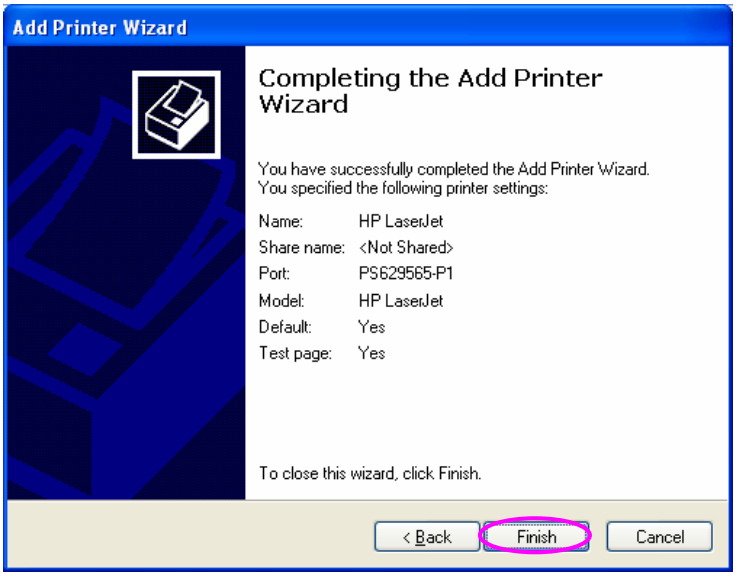
Step7. Name your printer and setup the default printer, click “Next”.


Add Printer Wizard
Name Your Printer
You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name:
HP LaserJet
Do you want to use this printer as the default printer?
Yes
No
< Back
Next >
Cancel

Step8. Choose to print the test page or not. It is recommended to print a test page. Click “Next”.


Add Printer Wizard
Print Test Page
To confirm that the printer is installed properly, you can print a test page.
Do you want to print a test page?
Yes
No
< Back
Next >
Cancel

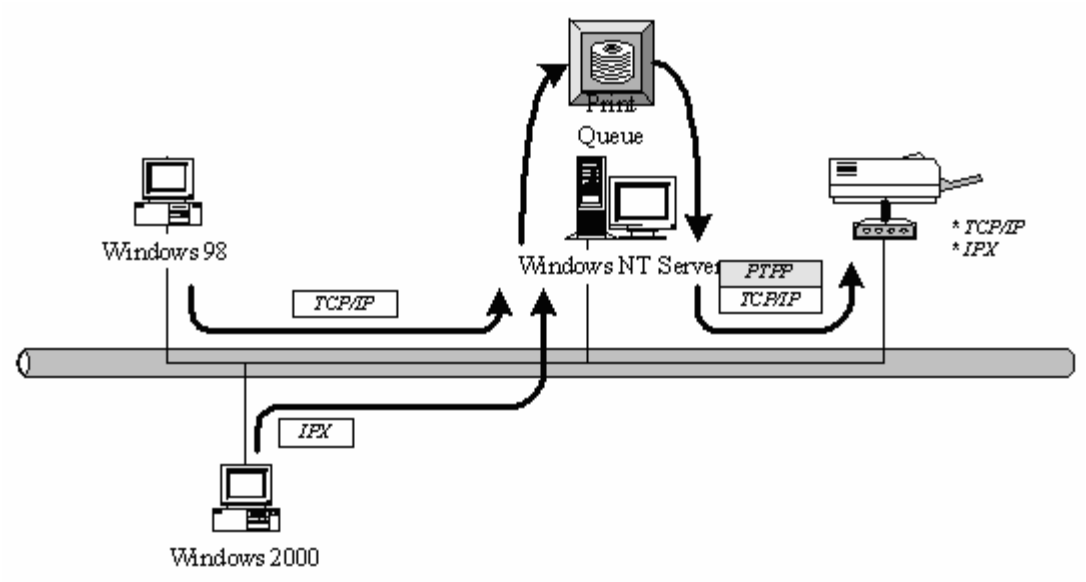
Step9. You have added the printer to the PC successfully. The information of the printer is displayed in the windows. Click “Finish”.



4. Windows NT/2000 Network

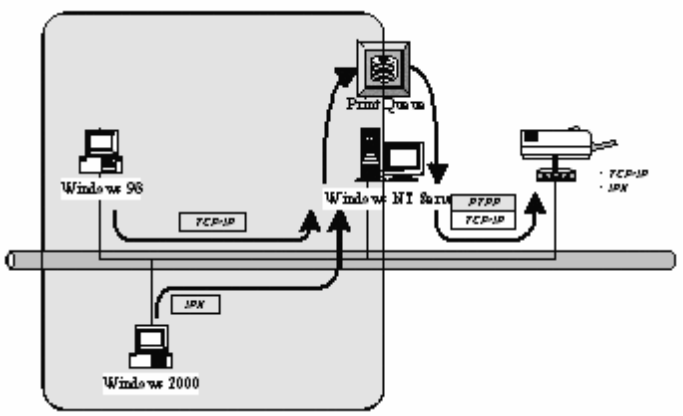
4.1 System Architecture

In Windows network environment, other than the Peer-to-Peer network printing architecture described in the previous chapter, we also offer the Server-Based Printing architecture for Windows NT/2000 server. Only one Windows NT/2000 is required to have Windows PTPP (Peer-to-Peer Printing) driver installed and share the printing service on the network. Other network users can simply connect to the server and access the shared printer. (see below)



4.2 Windows NT/2000 Server Installation and Setup

Please follow the procedures described below for installation and construct a peer-to-peer connection (PTPP) between Windows NT/2000 Server and Print Server.



Step1.

If this is your first time installing print server, please install the administrator software on Windows NT/2000 server first. Refer to section 3.2 for installation instructions.

If your network has already installed a working print server and your Windows NT/2000 server has not yet installed the PTPP driver, please install the client software. Refer to section 3.4 and 3.5 for installation instructions.

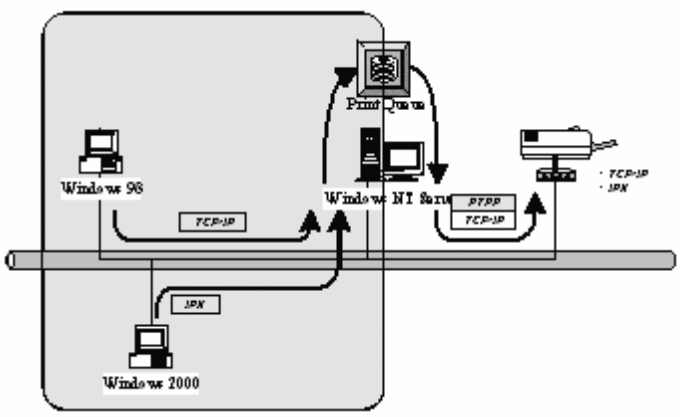
Step2.

Please add/configure the Peer-to-Peer Printing of the Windows NT/2000 network printer and verify that you can print from Windows NT/2000 to the print server by the installed PTPP driver.

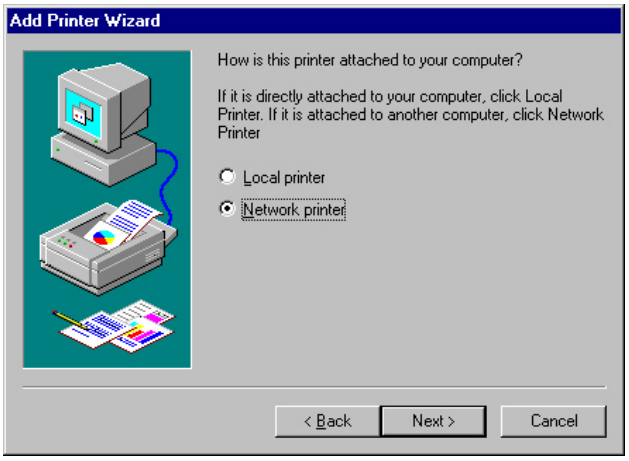
Step3.

Share the above server’s printer to the network by performing the standard Windows printer sharing process.

4.3 User Installation and Setup



After server side's installation is completed, client side will be able to find the server's shared printer in Network Neighborhood. You only need to perform Window's standard ***Add New Printer*** procedure, select ***"Network Printer"*** shown in the screen below, and complete the configurations afterwards to access the shared printer.

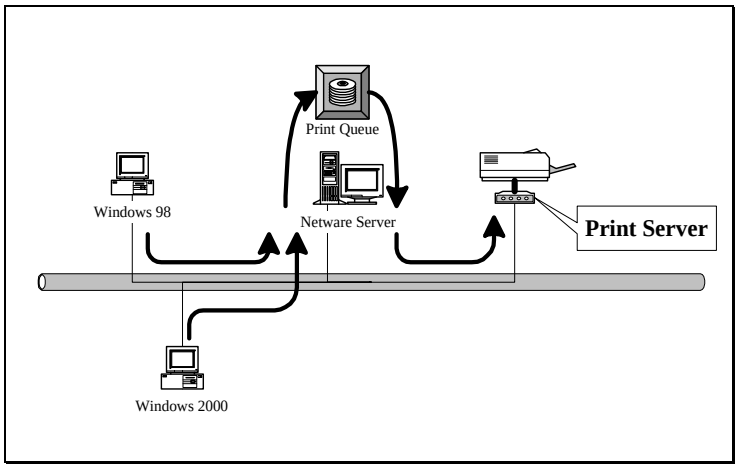

Add Printer Wizard
How is this printer attached to your computer?
If it is directly attached to your computer, click Local Printer. If it is attached to another computer, click Network Printer
Local printer
Network printer
< Back
Next >
Cancel

5. NetWare Network

5.1 System Architecture

We implement NetWare printer sharing functionality into the print server itself, thus allowing one or more printers attached by a print server to be connected to the network. We have developed the print server to support both NetWare print server:

- Embedded print server, which emulates the "queue management functionality" of NetWare print server, PSERVER program running on the NetWare server. A user first prints a job at a workstation, the job is routed to a NetWare server, the NetWare server stores the job in a print queue, then the print server gets the print job from the queue to printers.



Compare with NetWare printing functionality, the advantages of embedding the NetWare network printing functionality in the print server include:

- Installation is easier and quicker.

- Network management is easier.
- Printing performance is enhanced.
- Relieve NetWare file server’s burden.
- Relieve the need of a workstation running the remote printer utility.
- Improve productivity by locating the printer near the workgroup.

Each print server should log into a NetWare server before servicing the print jobs. Each print server will occupy a user account with which it can log into the NetWare server.

5.2 NetWare 3.x/4.x/5.x Installation & Setup

Once your print server is connected to your Ethernet network, you can set it up for use with your networking software.

5.2.1 Installation Using PCONSOLE

5.2.1.1 Configuring as Print Server Mode

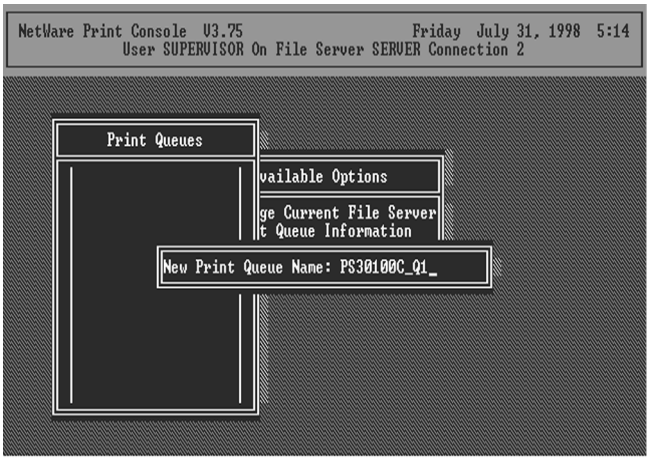
1. Run the NetWare PCONSOLE program.

2. Change the current file server, if necessary, using the Change Current File Server menu selection.

3. Choose the Print Queue Information menu selection.

4. Press the Insert key to add a new print queue.

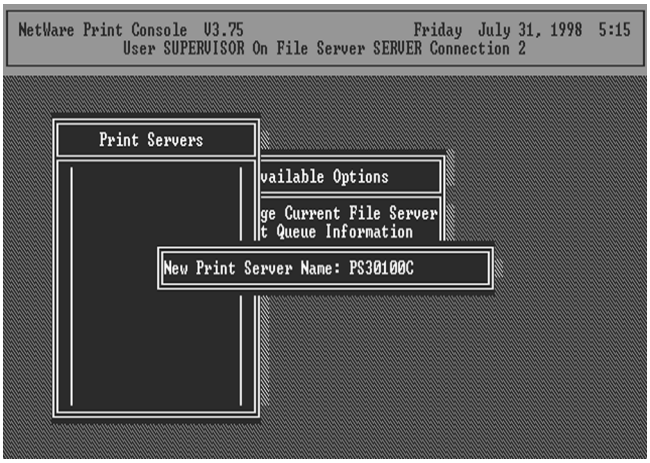
5. Type in a print queue name, such as “PQ” or “Q1”.


NetWare Print Console V3.75 Friday July 31, 1998 5:14
User SUPERVISOR On File Server SERVER Connection 2
Print Queues
vailable Options
ge Current File Server
t Queue Information
New Print Queue Name: PS30100C_Q1_

6. You have now successfully created the print queue that your print server will serve. Press the Escape key until the Available Options main menu is displayed.

7. Select Print Server Information.

8. Press the Insert key to add a new NetWare print server object. The print server name can be identical to the PSxxxxxx name printed on the label of the print server.

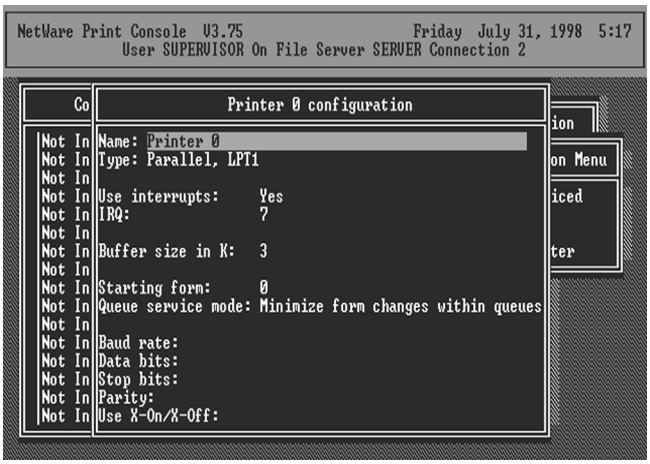

NetWare Print Console V3.75
Friday July 31, 1998 5:15
User SUPERVISOR On File Server SERVER Connection 2
Print Servers
vailable Options
ge Current File Server
t Queue Information
New Print Server Name: PS30100C

9. Press Enter to select the newly created print server.

10. Select Print Server Configuration.

11. Select Printer Configuration.

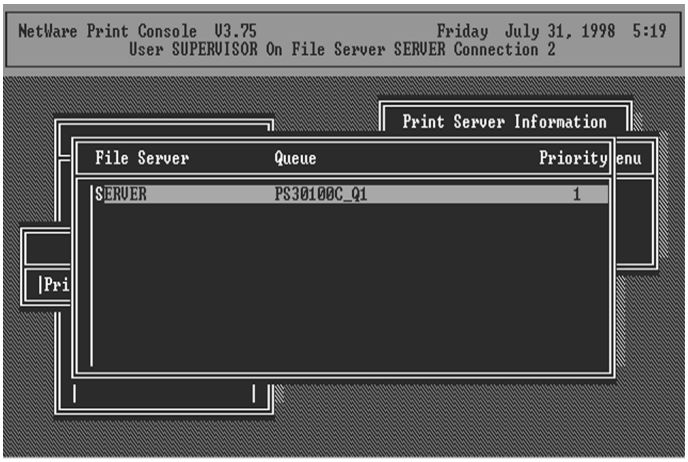
12. Select Printer 0 (or Printer 1, Printer 2), and press Enter, then select Parallel LPT1 (or LPT2, LPT3) in the Type field. If your print server is with only one port, you do not need to configure this Type field.



13. Press Escape, and answer Yes to the Save Changes question.

14. Select Queues Serviced by Printer, then select Printer 0 (or Printer 1, Printer 2) and press Enter.

15. Press *Insert* and add your newly created print queue to the list of queues serviced by the printer. Enter a priority number for the queue service, or press Enter to accept the default.



16. Repeatedly press Escape to exit the PCONSOLE program.

17. Reset the print server to have the changes take effect.

NOTE: If the print server you have is with multiple printer connectors, you may create multiple print queues and printer objects.

Your print server should now be ready to use. You should be able to redirect printing to your print server using a CAPTURE command such as the one shown in the previous section.

6. UNIX System Network

6.1 Introduction

The print server is available for TCP/IP printing by Unix lpd (Line Printer Daemon) protocol. The lpd protocol originated with Unix release is based on the BSD version of Unix and supported under most versions of Unix.

This chapter explains how to configure the print server for TCP/IP operation, and how to modify configuration files on your Unix system to allow printing to the print server. The configuration examples in this manual follow the syntax for BSD based Unix systems. Please refer to the related system documentation for the correct syntax of your systems.

To configure the print server for lpd printing, perform the procedures below:

1. Enable Print Server's TCP/IP Support.

2. Set up Print Server's IP address.

3. Verify Print Server's IP Address.

4. Configure remote lpd printing on the host.

5. Print a test page.

In the next sections, we will describe these five procedures step by step.

6.2 Enable Print Server's TCP/IP Support

The default configuration of the print server is with TCP/IP support enabled. Anyway, you can configure the print server to enable TCP/IP support using the configuration program.

6.3 Setup Print Server's IP Address

The print server must have a unique IP address in order to be recognized by the network.

You can set up the IP address on the various Unix systems using any one of the following methods:

1. DHCP (Dynamic Host Configuration Protocol)

2. BOOTP (Bootstrap Protocol)

The print server will use the last three methods to obtain its IP address automatically if its IP address is configured as Auto (0.0.0.0).

6.3.1 DHCP

There are many Unix systems that support DHCP protocol, and the procedures to configure the DHCP server database are different. This manual does not describe the DHCP server configuration on the Unix systems. It is highly recommended that the DHCP server should be located on the same network as the print server.

6.3.2 BOOTP

If you have the BOOTP daemon, bootpd, running on your UNIX system that is accessible by the print server, you can use the BOOTP protocol to set up the IP address of the print server. We recommend that the BOOTP server should be located on the same subnet as the print server. If you use Network Information Services (NIS) in your system, you may need to rebuild the NIS map with the BOOTP services before

doing the following BOOTP configuration. To rebuild the NIS map, please refer to your system documentation.

To configure the IP address data for the BOOTP server, you will need to log in the host of BOOTP server as the superuser (root). Perform the following steps to add address entries,

1. Optionally, assign a name corresponding to the print server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

203.66.191.12 pserver

2. Add an entry to the host's /etc/bootptab file, similar to the following:

hostname:

:ht=1:

:ha=print_server_ethernet_address:

:ip=print_server_ip_address:

Lines should be indented with tabs.

Where hostname is the device name of a print server, the ht=1 tag specifies the hardware type is Ethernet, the ha= tag specifies the Ethernet address of a print server, which is the Node ID located on the print server. The ha tag must be preceded by the ht tag. The ip= tag should correspond to the IP address you want to assign to the print server.

For example, a print server with the following configuration:

Node ID: 0000B4010101 (this implies Ethernet

address is 0000B4010101),

IP address: 203.66.191.12

The entry for this print server in the /etc/bootptab file should be:

```
PS010101:\
    :ht=1:\
    :ha=0000B4010101:\
    :ip=203.66.191.12:
```

6.4 Verify Print Server's IP Address

To verify that your print server is responding to the newly assigned IP address using a PING command:

ping ip-address

6.5 Configure Remote lpd Printing on the Host

The procedure you use to configure your Unix host(s) to allow printing to your network remote print server varies between different varieties of Unix. The procedure below can be used for Unix variants that are related to BSD Unix, such as SunOS or Linux. For other versions of Unix, consult your system documentation, keeping in mind that:

1. The print server should be treated as a BSD networked print server host.

2. The host name should be the name (or IP address) that you have assigned to the print server.

3. The printer name (or queue name) on the remote host should be lpt1, lpt2 or lpt3, the name of the printer port on the print server.

You will need to perform the tasks below, logged in as the superuser (root). To configure your Unix host for printing,

1. Optionally, assign a name corresponding to the print server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

203.66.191.186 pserver

2. Create a spool directory for the printer in the same directory where spool directories are normally kept on the machine, such as /var/spool or /var/spool/lpd:

```
mkdir /var/spool/lpd/pserverd

chown daemon /var/spool/lpd/pserverd

chgrp daemon /var/spool/lpd/pserverd

chmod 775 /var/spool/lpd/pserverd
```

3. Add an entry to the host's /etc/printcap file, similar to the following:

```
printer-name:\

 :lp=:\

 :rm=203.66.191.186:\

 :rp=lpt1:\

 :lf=/var/spool/lpd/pserverd.log:\

 :sd=/var/spool/lpd/pserverd:\

 :mx#0:
```

Lines should be indented with tabs. More than one printer name can be used, with variants separated by vertical bars (name1|name2).

The rm= entry should correspond to the IP address you have assigned to the print server. You can also use a host name if you have assigned one in the /etc/hosts file.

The sd= entry should correspond to the spool directory you created in the previous step.

The rp= entry should correspond to the port name of the remote printer. The values should be one of lpt1, lpt2 or lpt3 depends on the printer port.

The print server should now be available for printing from your Unix host.

7. Configuration Utility

7.1 Introduction

This chapter introduces print server's system configuration utility in Windows environment. This utility is automatically installed during Windows Administrator Utility installation procedure - refer to section 3.2 and 3.3.

This utility provides the most complete management and configuration functions on the print server side. This utility only provides configuration functions for print server itself; it does not include configuration functions for client side or other file server or NetWare server in the network environment.

The Configuration Utility provides the following configuration and management functions:

- **Search Print Server**: Search All Available Printer Servers on the Network.
- **Print Server Status**: Display Print Server Network Status.
- **AppleTalk Configuration**: AppleTalk Protocol Setting.
- **General Configuration**: General Information of print server.
- **NetWare Configuration**: NetWare Printing Configuration.
- **System Configuration**: Print Server Network Ability Setting and Firmware Upgrade.

- **TCP/IP Configuration**: IP Address and DHCP Server Configuration.

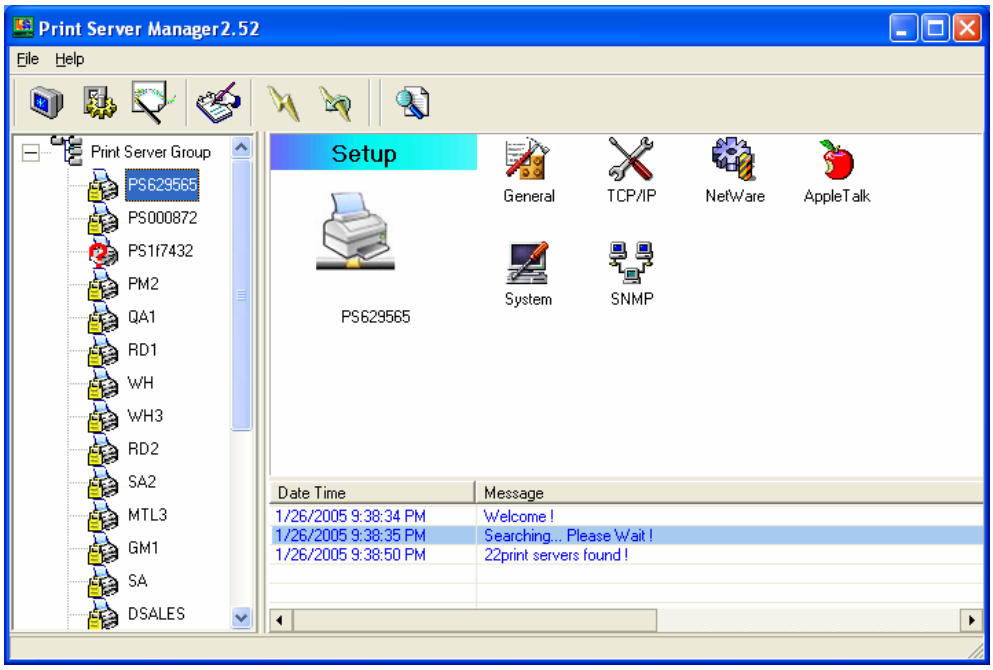
- **SNMP Configuration**: SNMP Information configuration.

- **Setup Wizard**: Guide You Through All the Settings.

- **Report**: List the Status of All Available Print Servers on the Network.

We will explain each function separately in the following section.

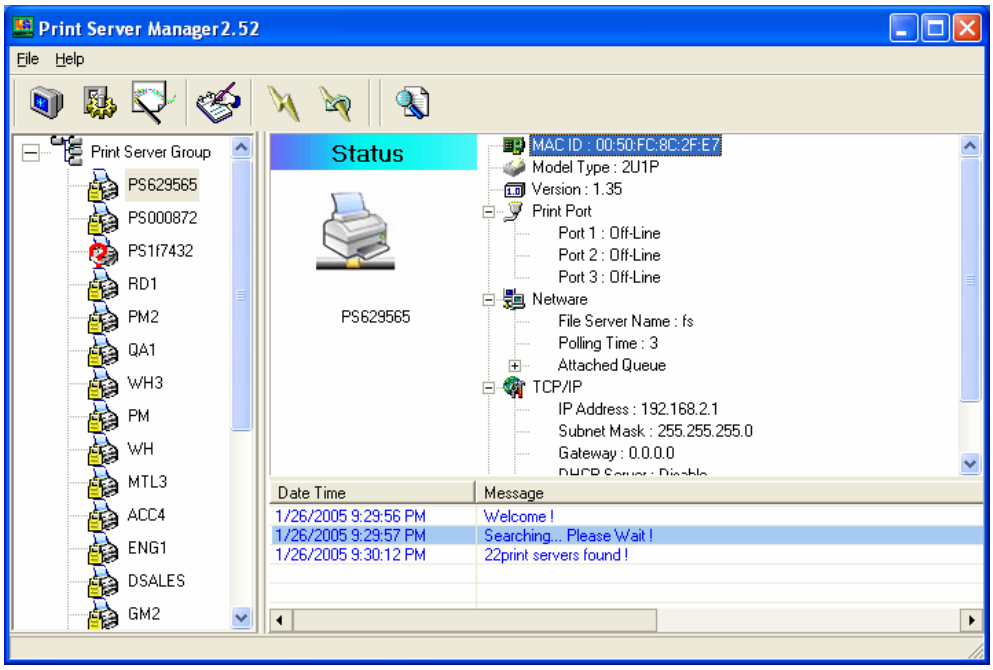
7.2 Search for All Available Print Server



Every time when you run print server's configuration utility, click the "Search" icon on the tool bar. The configuration utility will delay for several seconds because the utility is using system's available network protocols to search for all print servers on the network. All available print servers will be listed under "Print Server Group" on the left side of the window.

You must select the print server you would like to configure from the list. The system will, at the same time, display the selected print server's status on the right side of the window.

7.3 Status of Print Server



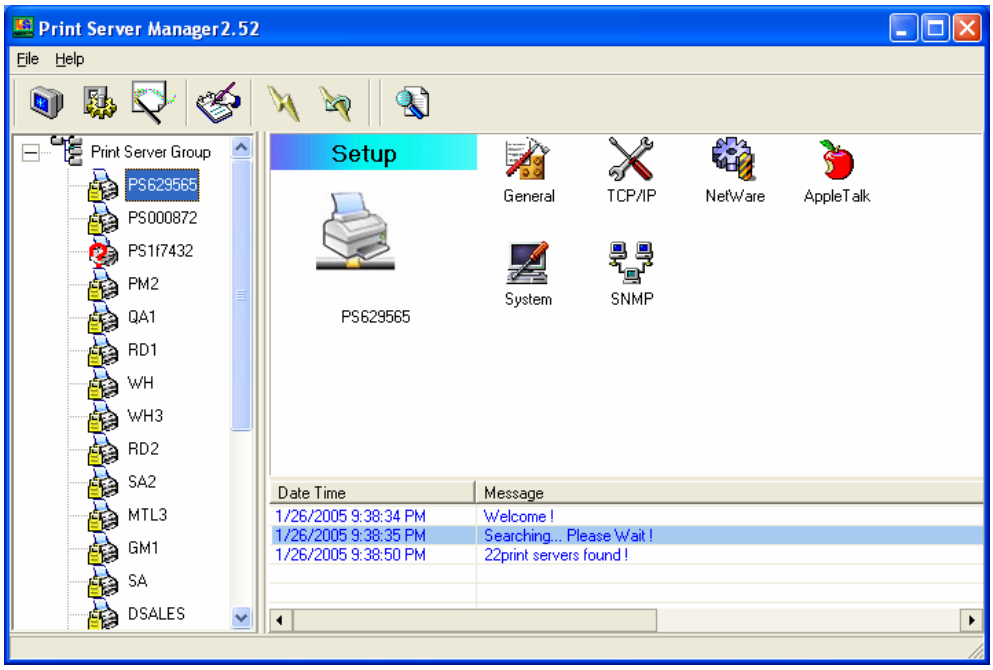
Click “Status” icon on the tool bar, the status of the current selected print server will be showed on the right side of the window.

The information of the print server displayed are MAC ID, Model Type, Firmware Version, status of each printer port, NetWare file server name, NetWare file server polling interval, NetWare printer queue names, IP address, subnet mask, default gateway, AppleTalk printer type, AppleTalk zone and print server printing ability…etc.

You can refresh the print server’s status by pressing the “Refresh” button .

You can restart the print server by pressing the “Reboot” button .

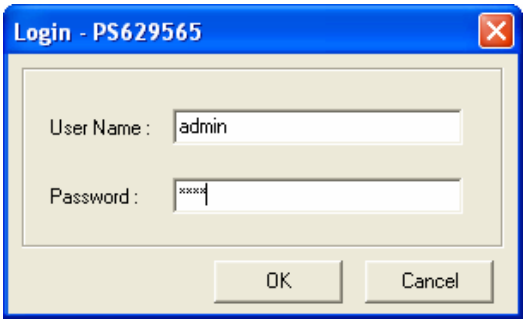
7.4 Setup the Print Server



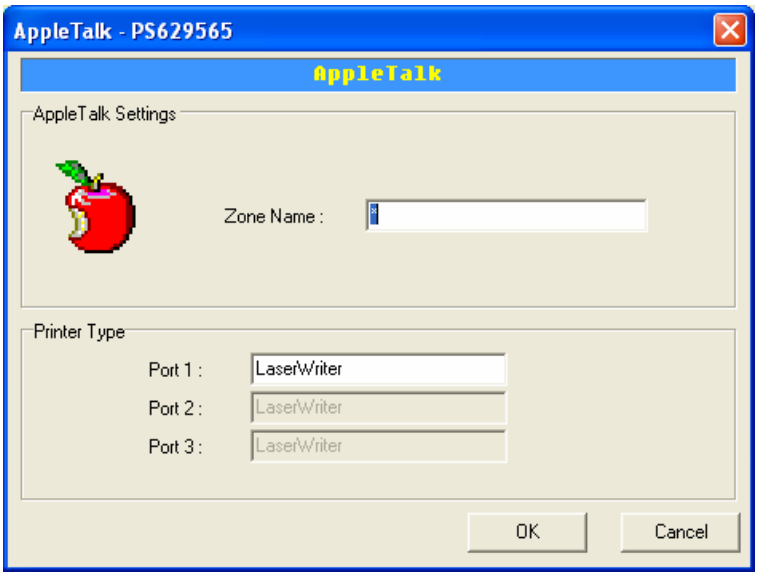
Click “Setup” icon on the tool bar, the setup items of the current selected print server will be showed on the right side of the window.

Double click one of the icons to set up the selected print server. A screen will pop up to verify “User Name” and “Password” of the print server. The default values are as follows.

- User Name: admin
- Password: 1234


Login - PS629565
User Name :
admin
Password :
OK
Cancel

7.5 AppleTalk Configuration



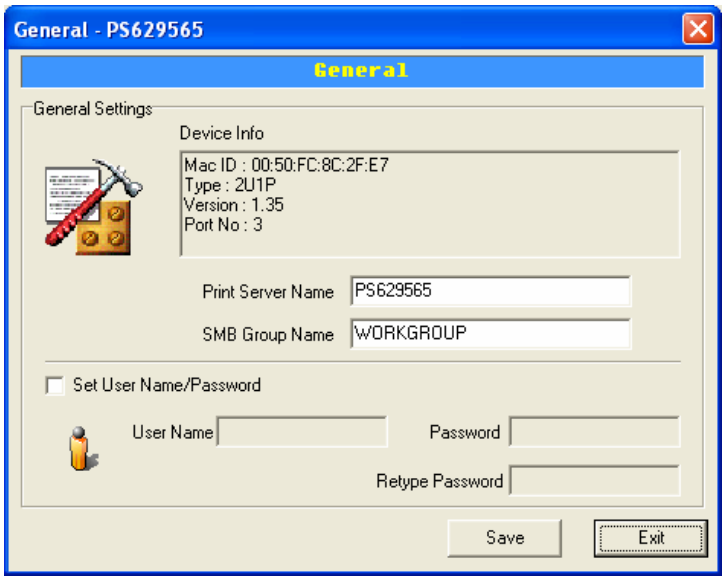
Double Click “AppleTalk” icon and the AppleTalk configuration window will pop-up.

AppleTalk is a data communication protocol often used by Macintoshes. The print server can use these parameters to join the AppleTalk network and share the printer to other AppleTalk workstations. You have to setup the “Zone Name” and “Printer Type” for each printer port of this print server.

Zone Name: Print server has to join zones of AppleTalk before it can be shared to other workstations. Only workstations in the same zone can share the printer. If you want to share the printer to all workstations in all Zones, you should enter only “*” in the “Zone Name” field.

Printer Type, the type of printer attached to each printer port. You can get the printer type from the manufacturer of the printer.

7.6 General Configuration



Double Click "General" icon and the General configuration window will pop-up.

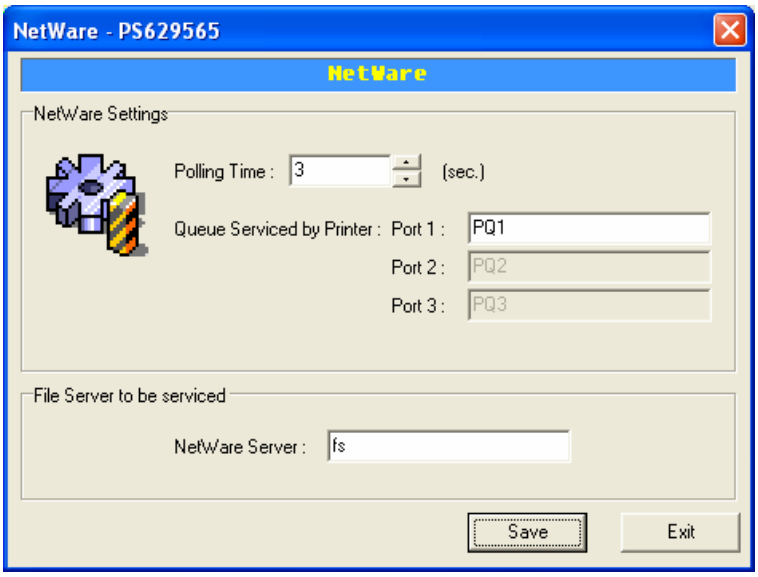
You can see basic print server information in this page. You also can configure the "Print Server Name", "SMB Group Name", "User Name" and "Password" here.

Printer Server Name, the name of the print server. You can use this name to identify the print server when you are searching for the print server by the administration and client utilities.

SMB Group Name, the name of SMB group that this print server belongs to. All PC should join the same group before they can use this print server by SMB protocol.

User Name / Password is used to authenticate the administrator.

7.7 Netware Print Server Configuration



Double Click "NetWare" icon and the NetWare configuration window will pop-up.

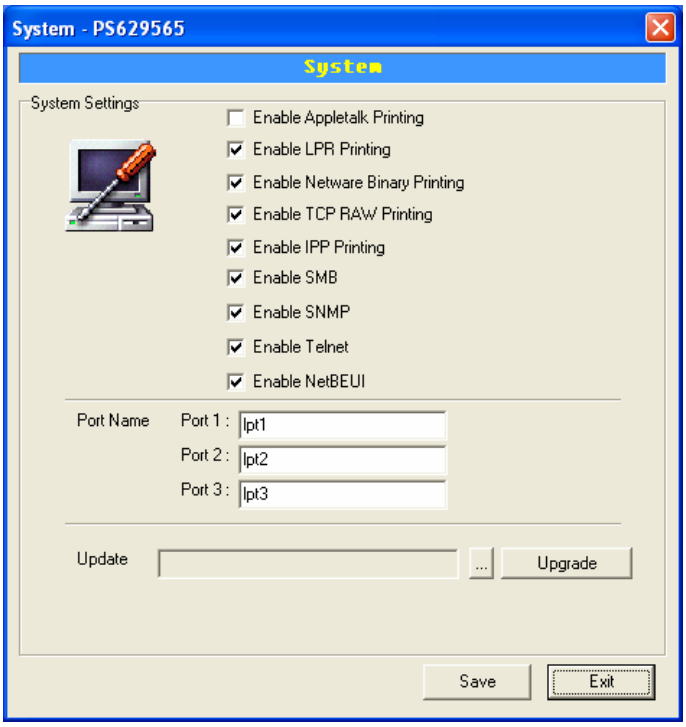
This print server supports NetWare Bindery Printing method. The print server periodically polls the NetWare server printer queues for printing jobs. You have to assign the NetWare server name, print server polling interval and the name of queue on the NetWare server for each printer port.

Polling Time is the polling interval of the print server for waiting printing jobs on the NetWare server.

Queue Serviced by Printer is the name of the printer queue on the NetWare server. The printer queue keeps all printing jobs waiting on the NetWare server. You have to assign a printer queue for each printer port of this print server.

NetWare Server is the name of the NetWare file server that provides printer queues.

7.8 System Configuration



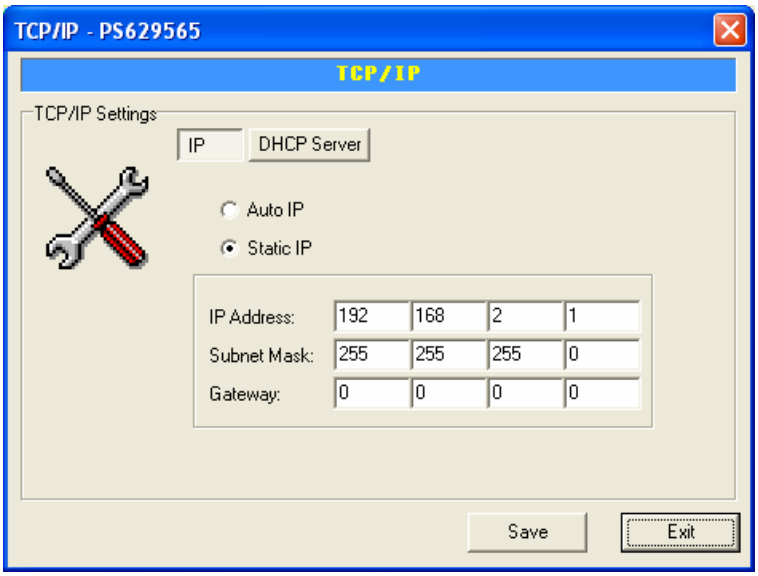
Double Click "System" icon and the System configuration window will pop-up.

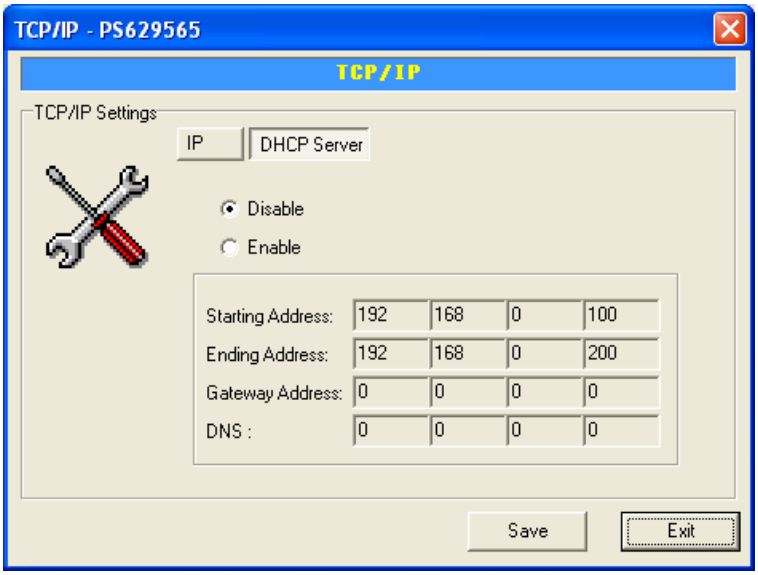
In the System configuration page, you can select to enable/disable each printing or management protocol and upgrade the new firmware for this print server.

Port Name is the name of the printer port. Each printer port has to be assigned a name. The client utility uses this name to access the printer port.

Upgrade Firmware: You can use this "Upgrade Firmware" tool to update the newest firmware of the print server. Click " " button and select the correct firmware in your PC. After selecting the firmware file, click the "Upgrade" button to finish the firmware update process.

7.9 TCP/IP Configuration





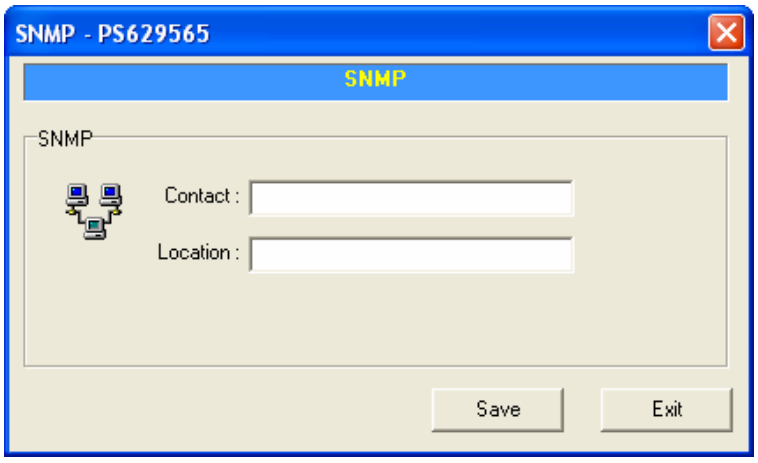
Double Click "TCP/IP" icon and the TCP/IP configuration window will pop-up.

You can configure the print server to automatically get IP from DHCP server or manually specify static IP. The print server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

Click the “IP” button to enter the IP setting page. If you need the print server to automatically get an IP from DHCP server, select “Auto IP”. You also can select “Static IP” to manually assign “IP Address”, “Subnet Mask” and “Gateway” for the print server.

Click the “DHCP Server” button to enter the DHCP server’s setting page. You can enable/disable the DHCP server and assign a range of IP addresses here. The DHCP server is default disabled. You have to configure “Starting Address”, “Ending Address”, “Gateway Address” and “DNS”. The print server will assign a unique IP for each client.

7.10 SNMP Configuration

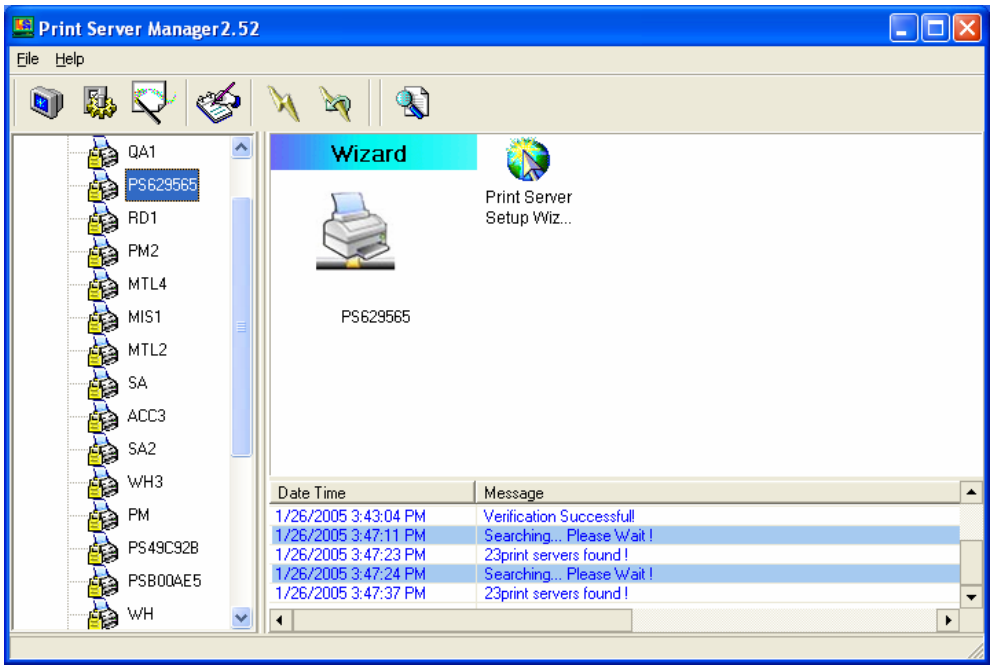


Double Click “SNMP” icon and the SNMP configuration window will pop up.

Contact: You can enter the print server administrator’s contact information here. This information will be displayed in the SNMP management tool.

Location: You can enter the installed location of the print server here. This information will be displayed in the SNMP management tool.

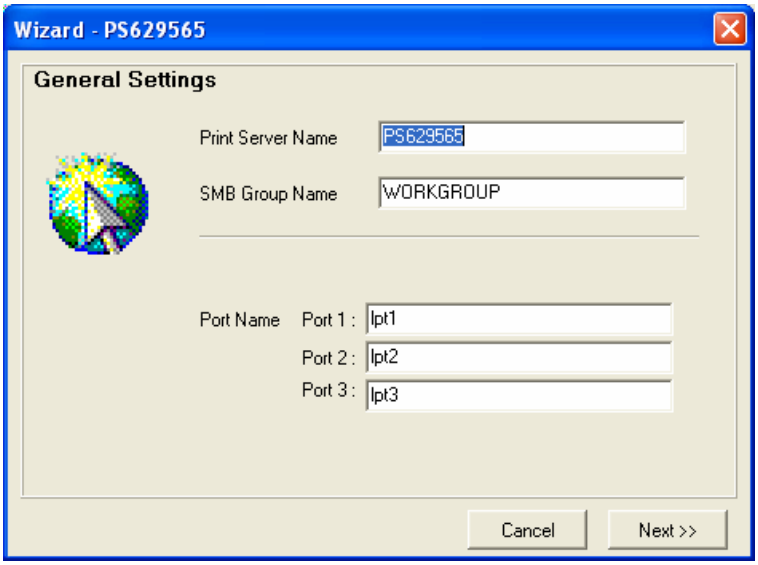
7.11 Wizard



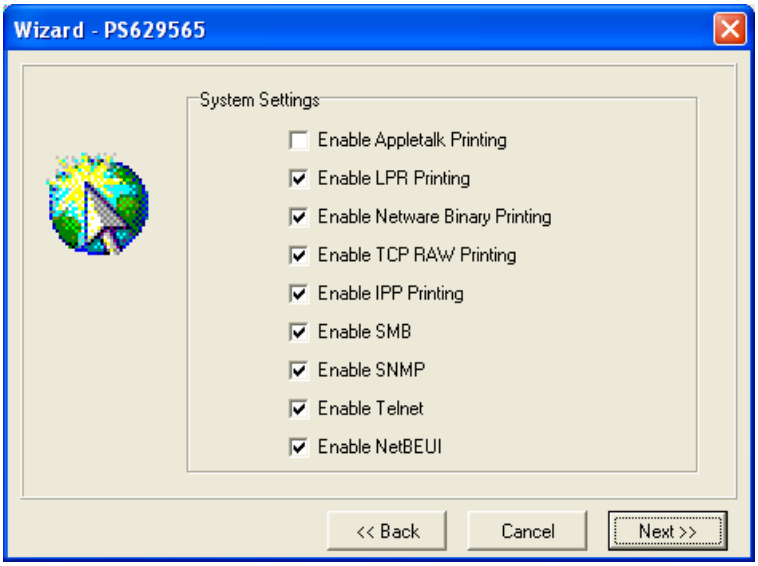
Click “Wizard” icon on the tool bar, the setup wizard item of the current selected print server will be showed on the right side of the window.

Double click the “Print Server Setup Wizard” the setup wizard will guide you through all the setup process.

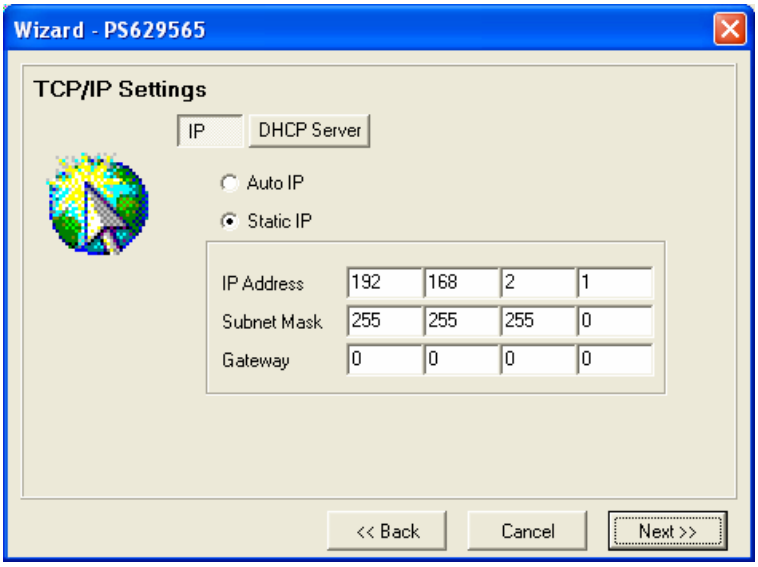
Step 1: Set up the print server name, SMB Group Name and Port Name of this print server.



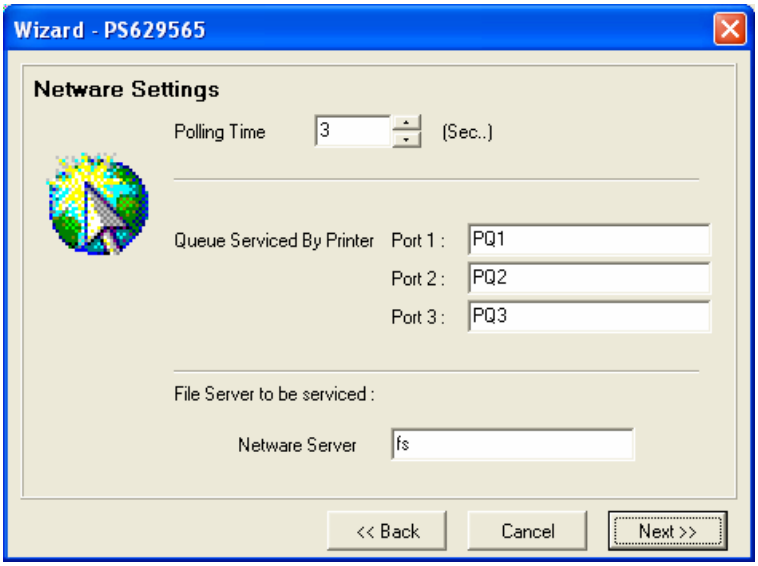
Step 2: Select to enable required printing protocol. Please refer to section 7.8 for detail information.



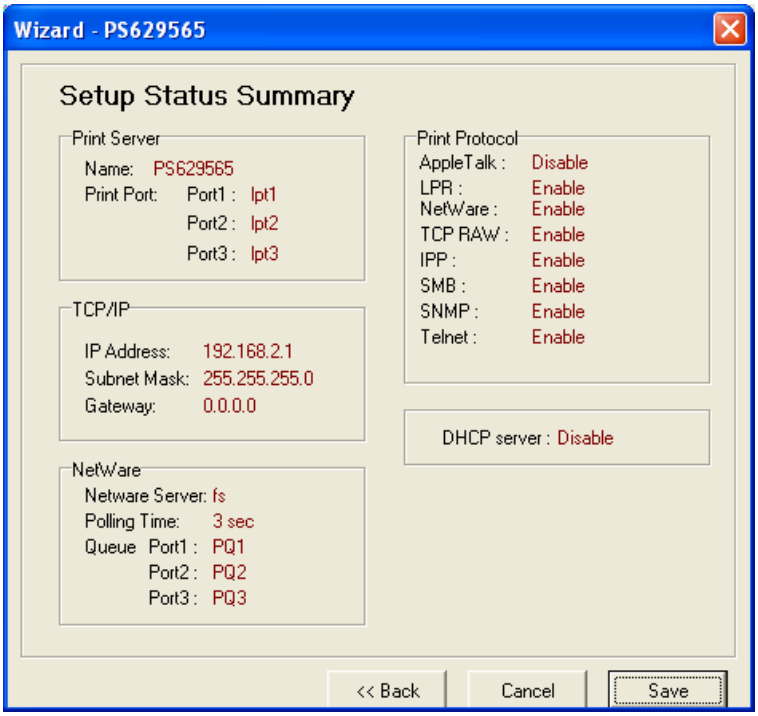
Step 3: Setup the IP of this print server and the DHCP server. Please refer to section 7.9 for detail information.



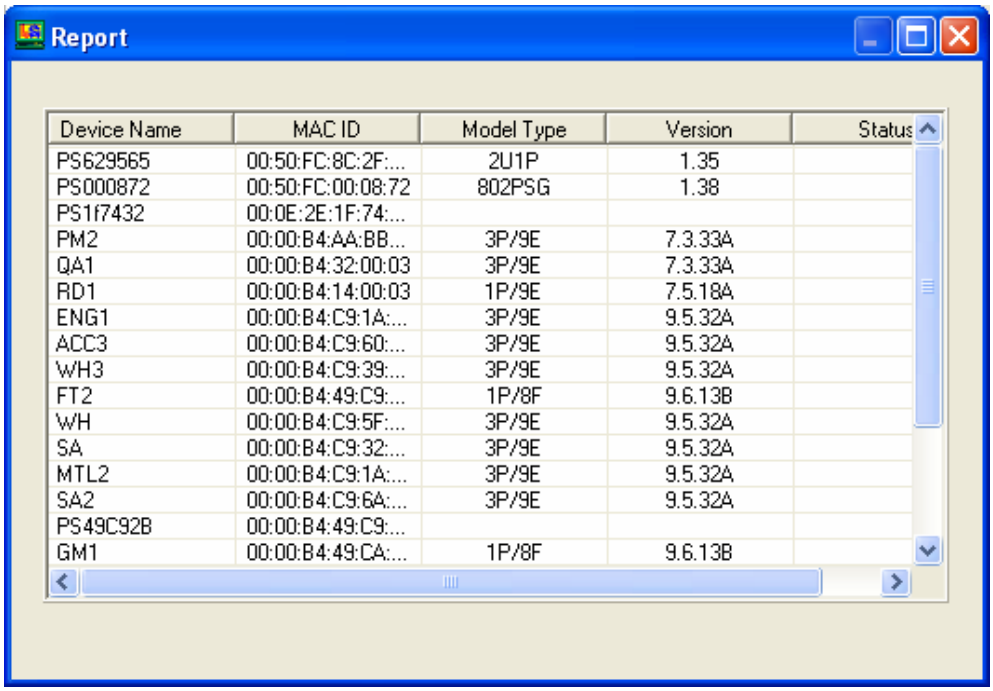
Step 4: Setup the NetWare printing. Please refer to section 7.7 for detail information.



Step 5: Click “Save” to finish setting.



7.12 Report



Click “Report” icon on the tool bar, the Report window will pop up.

The report lists basic information of all available print servers on the network. The information includes Device Name, MAC ID, Model Type, Firmware Version and Status of print server.

8. Web Management

8.1 Introduction

Print server can be configured and managed on the Web. Through Local Area Network, or even Internet, administrator can easily configure and manage print server's various main functions in browsers. Simply enter print server's IP address into your browser's address field to manage a print server by print server's built-in Web Server.

8.2 Web Management of Print Server

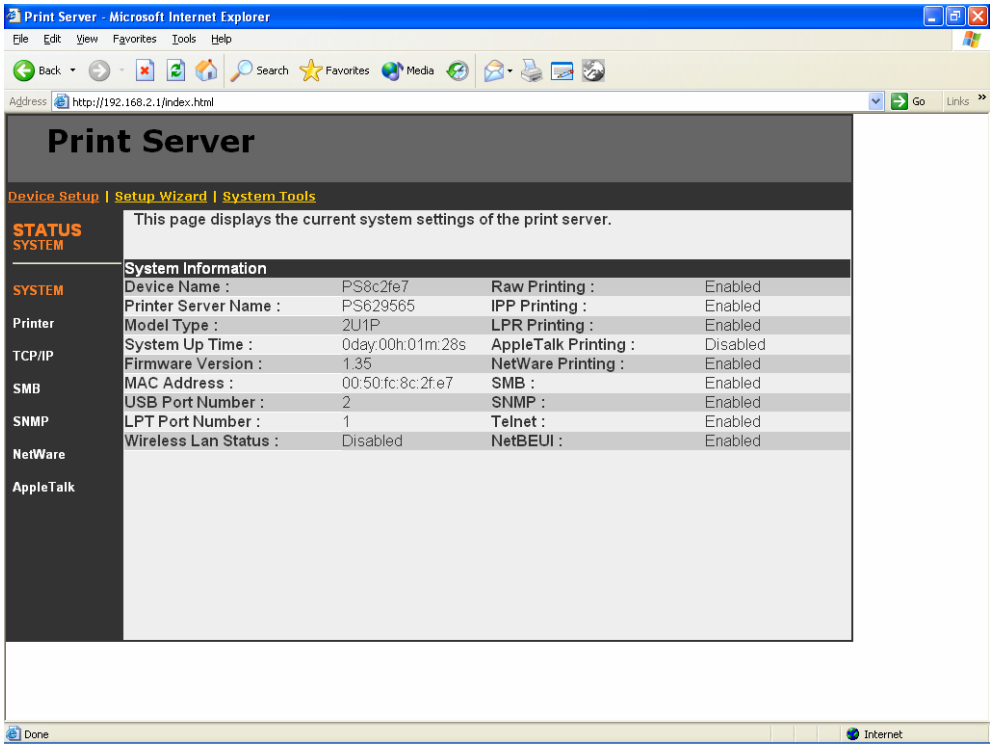
8.2.1 Login

You may use any Web Browser to review the status or configure the settings of the print server. After entering the IP address of the print server, a login page display. You have to enter correct “User Name” and “Password” before going to the Web Management pages.

Notes: Default IP Address or print server is “192.168.2.1”, User Name is “admin”, default password is “1234”.

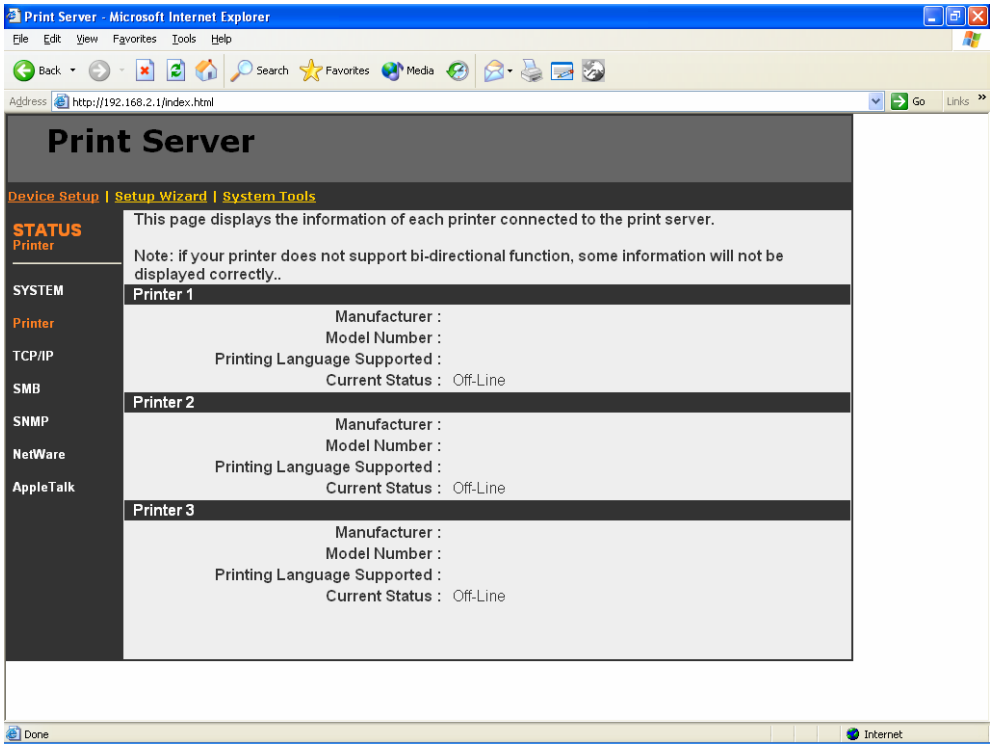
8.3 Device Status

8.3.1 System



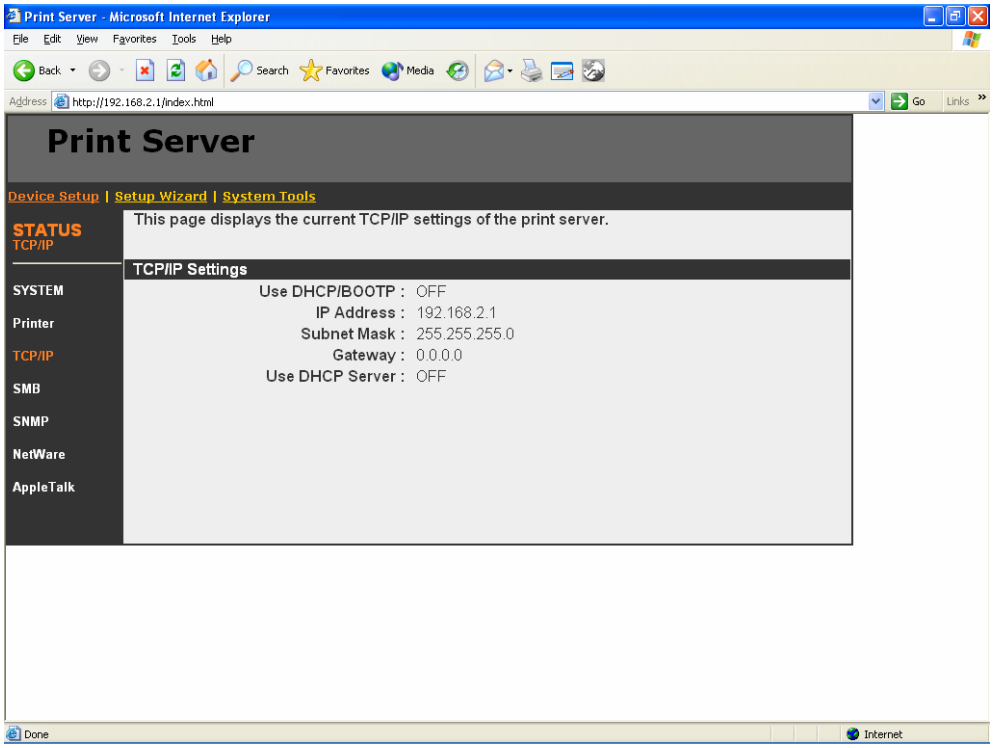
System Information includes “Device Name”, “Print Server Name”, “Model Type”, “System Up Time”, “Firmware Version” and “MAC Address”.

8.3.2 Printer



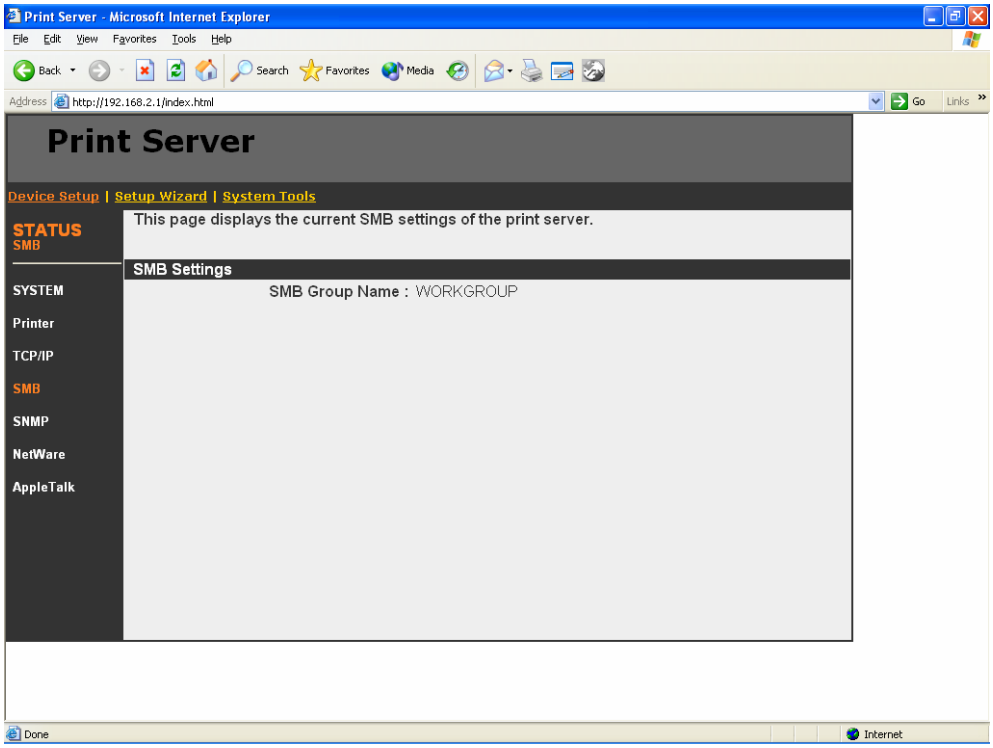
This page lists information of printers connected to all printer ports.

8.3.3 TCP/IP



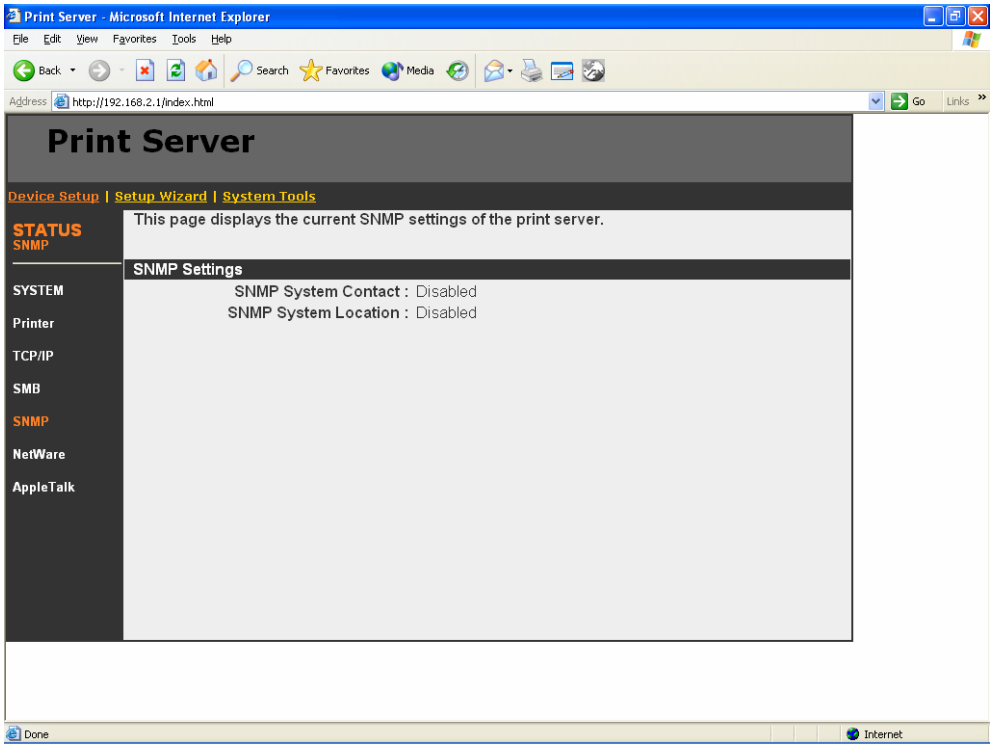
This page lists all TCP/IP Settings including “IP Address”, “Subnet Mask” and “Gateway”. It also lists DHCP server settings including “Start IP”, “End IP” and “Domain”.

8.3.4 SMB



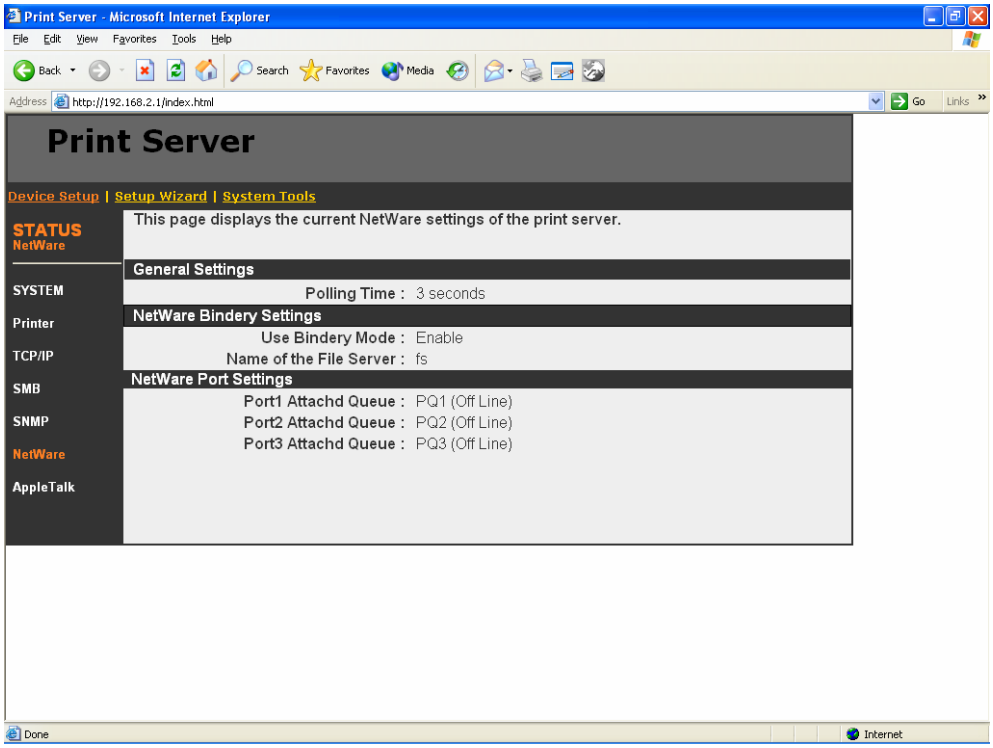
This page lists the SMB group setting of the print server.

8.3.5 SNMP



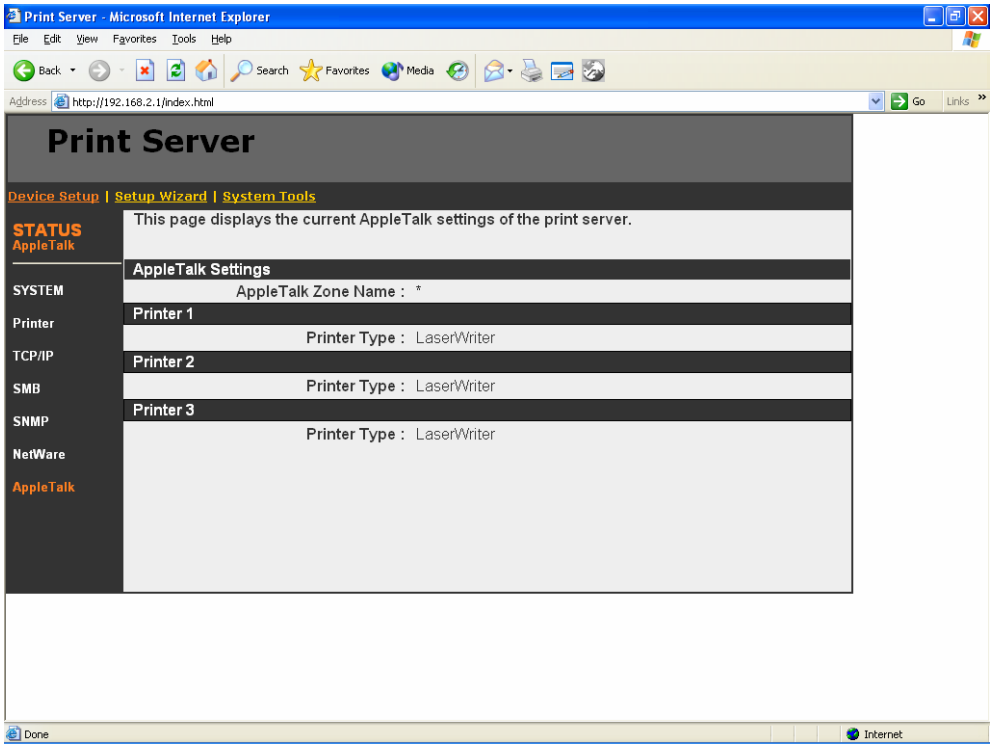
This page lists the SNMP settings of the print server. It includes the settings of “SNMP System Contact” and “SNMP System Location”.

8.3.6 NetWare



This page lists NetWare settings, including “Polling Time”, “Name of the File Server” and “Queue Name of each Port”.

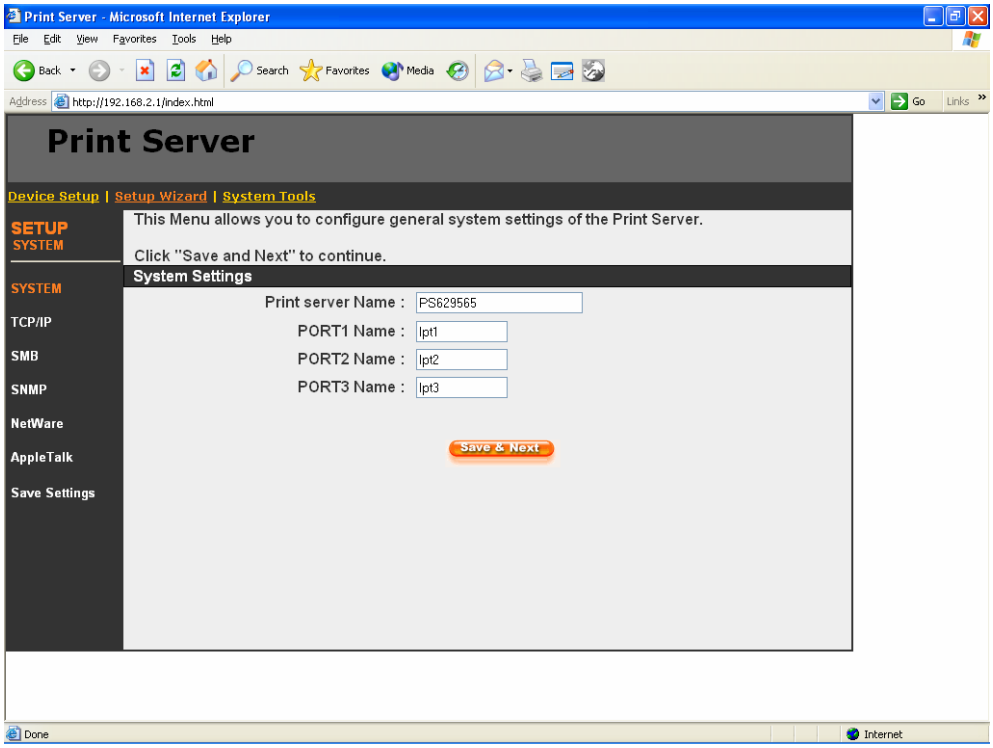
8.3.7 AppleTalk



This page lists AppleTalk settings, including “AppleTalk Zone Name” and “Printer Type of printers connected to all print ports”.

8.4 Setup Wizard

8.4.1 System

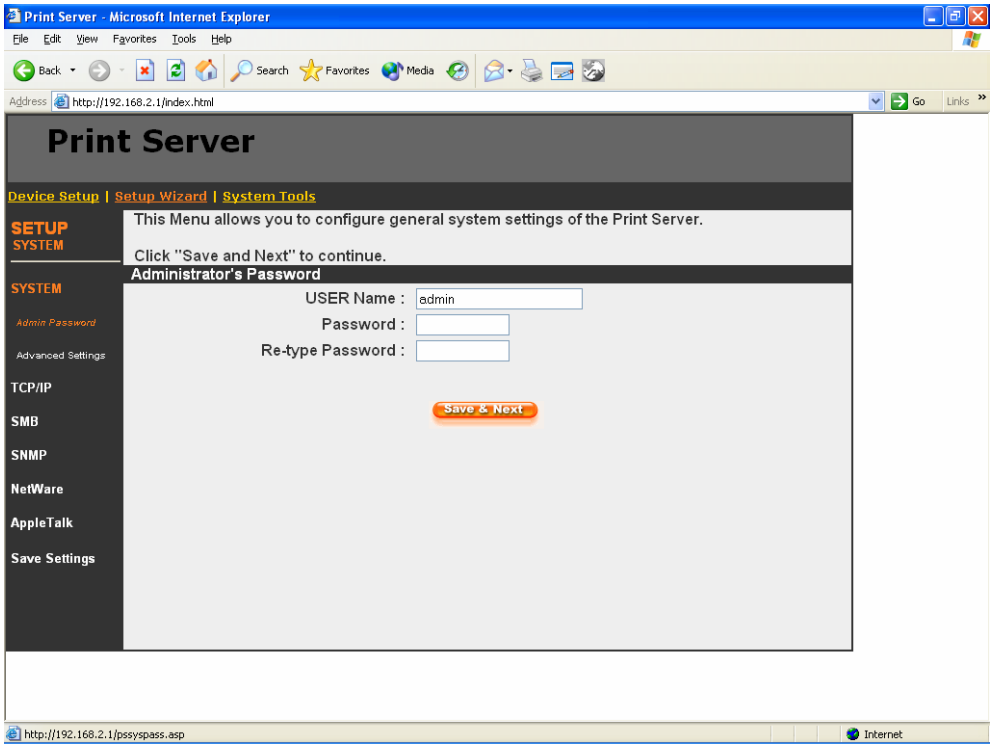


You can configure the “Print Server Name”, and “Port Name” here.

Printer Server Name, the name of the print server. You can use this name to identify the print server when you are searching for the print server by the administration and client utilities.

Port Name is the name of the printer port. Each printer port has to be assigned a name. The client utility uses this name to access the printer port.

8.4.1.1 Administrator Password



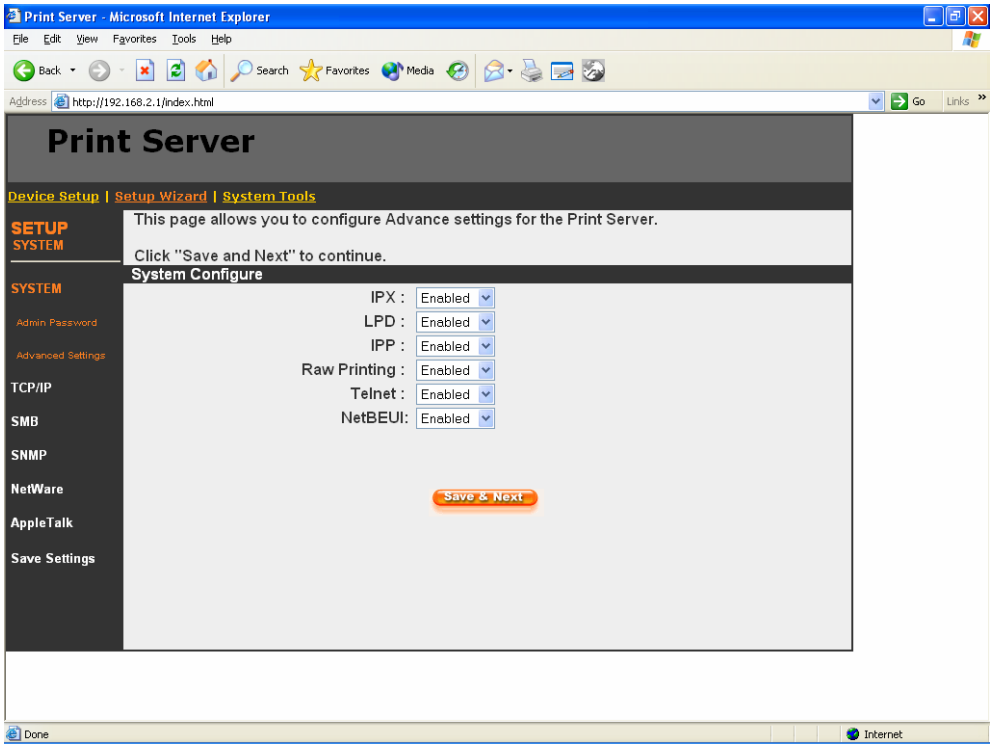
You can change the user name and password of the print server from here.

USER Name, the administrator name of the print server. If you change the user name, you have to login to the print server from administrator utility or web management with the new name. The default user name is ”admin”.

Password, enter the password you want to change to the print server. The password can be up to 8-digit alphanumeric format. The default password is “1234”.

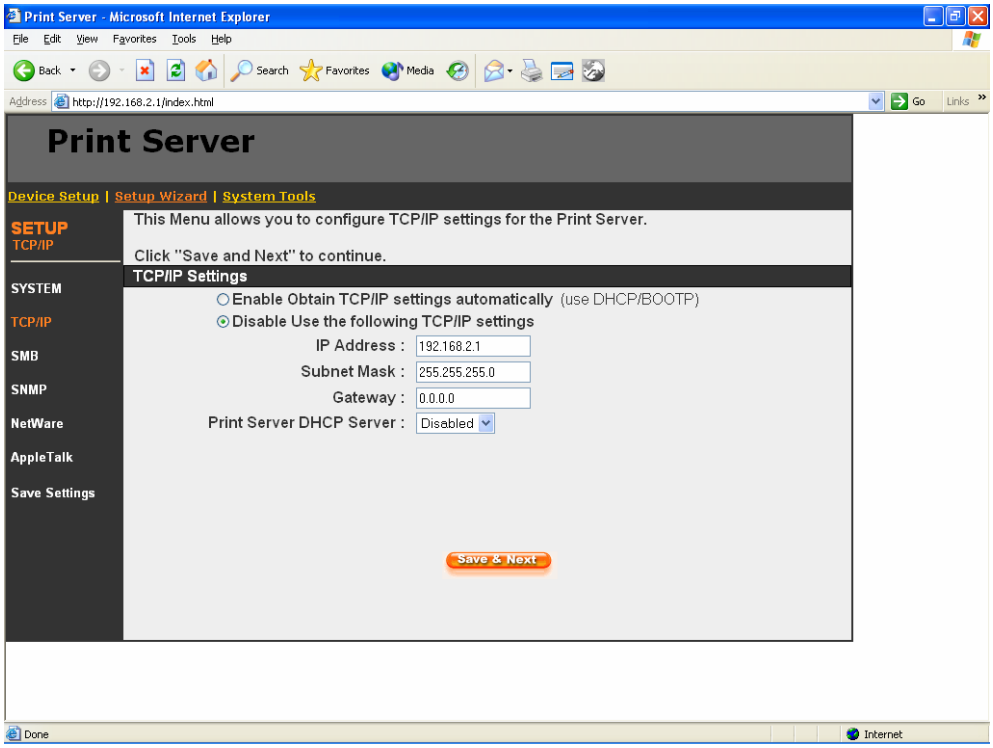
Re-type Password, enter the password you want to change to the print server again.

8.4.1.2 Advanced Settings



You can enable/disable the printing protocols and other advanced functions such as Telnet control from the screen. To enable the function, please select “Enabled”; to disable the function, please select “Disabled”.

8.4.2 TCP/IP



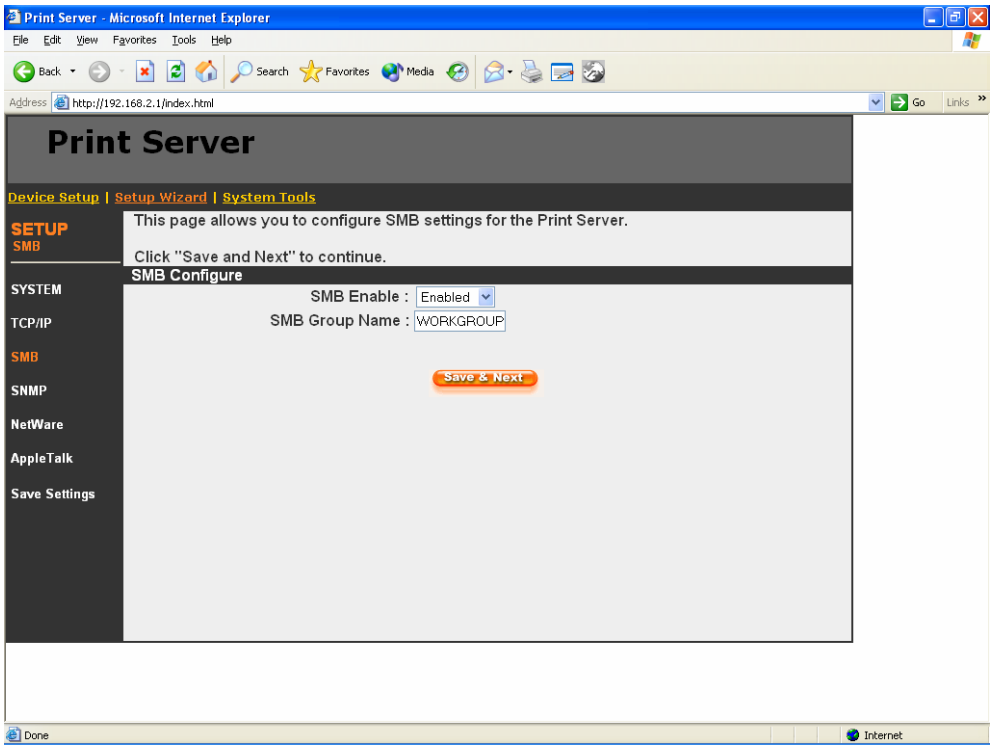
You can configure the print server to automatically get IP from DHCP server or manually specify static IP. The print server also has a built-in DHCP server. You can enable this DHCP server and let it manages IP for you.

If you need the print server to automatically get an IP from DHCP server, select “Enable Obtain TCP/IP Settings Automatically (Use DHCP/ BOOTP)”. You also can select “Disable Use the following TCP/IP Settings” to manually assign “IP Address”, “Subnet Mask” and “Gateway” for the print server.

You can enable/disable the print server’s DHCP server. The DHCP server is default disabled. If the DHCP is enabled, you have to assign a range of IP addresses here. Fill in the

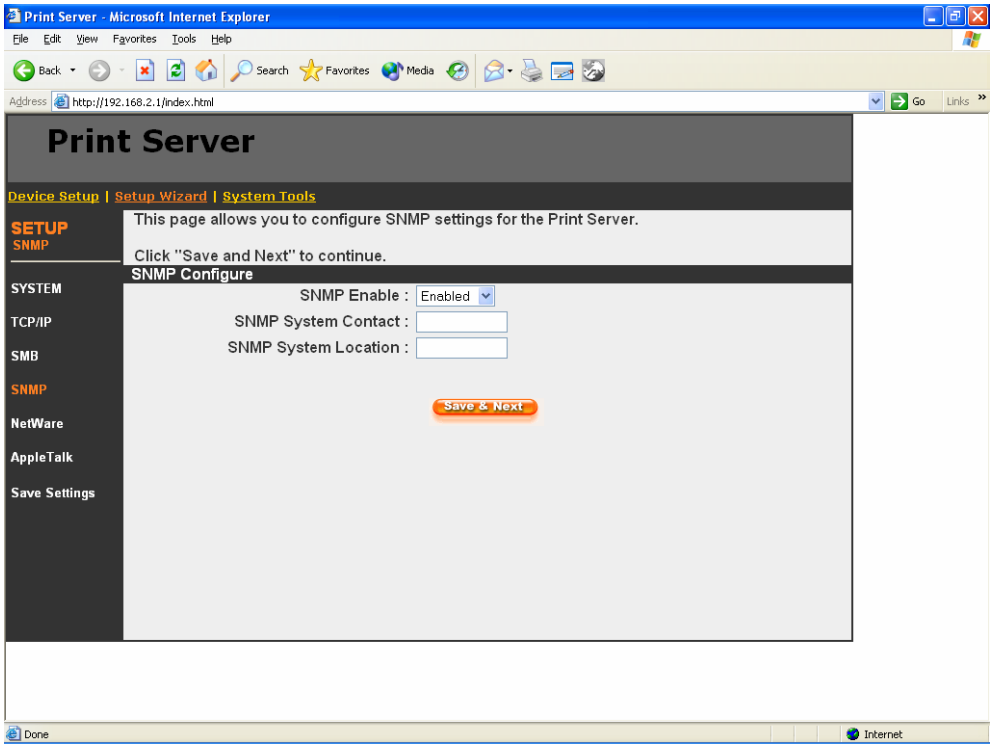
“Start IP”, “End IP”, and “Domain”, and the print server will assign a unique IP for each client.

8.4.3 SMB



You can enable/disable the SMB protocol from here. If SMB is enabled, enter the “SMB Group Name” to specify the SMB group that this print server belongs to. All PC should join the same group before they can use this print server by SMB protocol.

8.4.4 SNMP

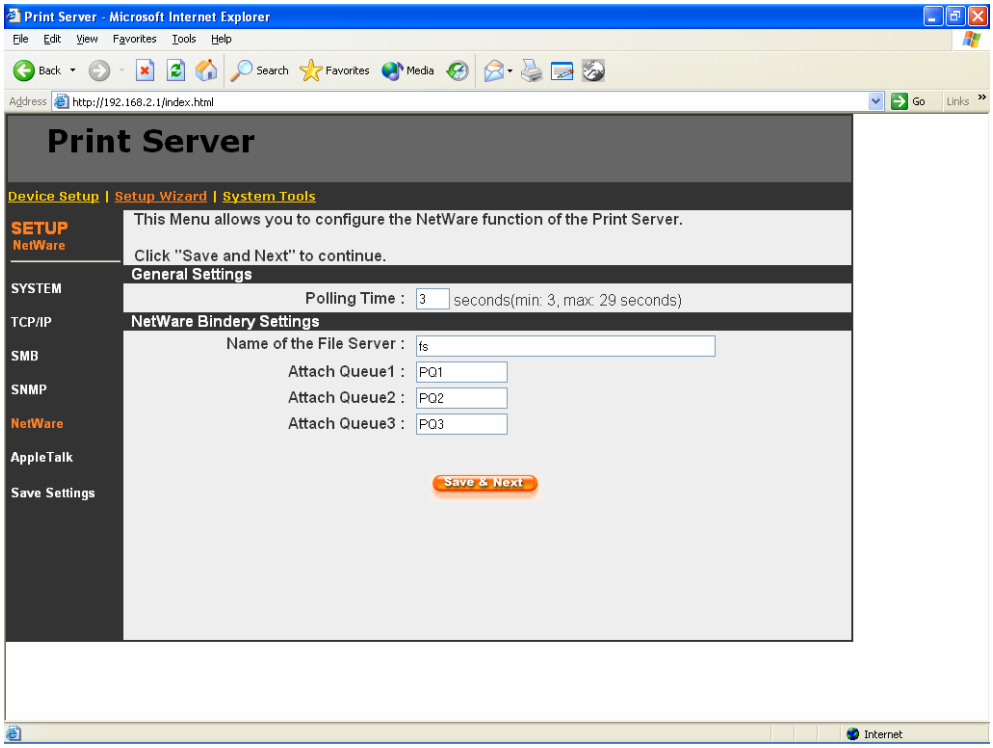


The print server supports SNMP configuration. If it is enabled, please set up the following parameters.

SNMP System Contact: You can enter the print server administrator's contact information here. This information will be displayed in the SNMP management tool.

SNMP System Location: You can enter the installed location of the print server here. This information will be displayed in the SNMP management tool.

8.4.5 NetWare



This print server supports NetWare Bindery Printing method. The print server periodically polls the NetWare server printer queues for printing jobs. You have to assign the NetWare server name, print server polling interval and the name of queue on the NetWare server for each printer port.

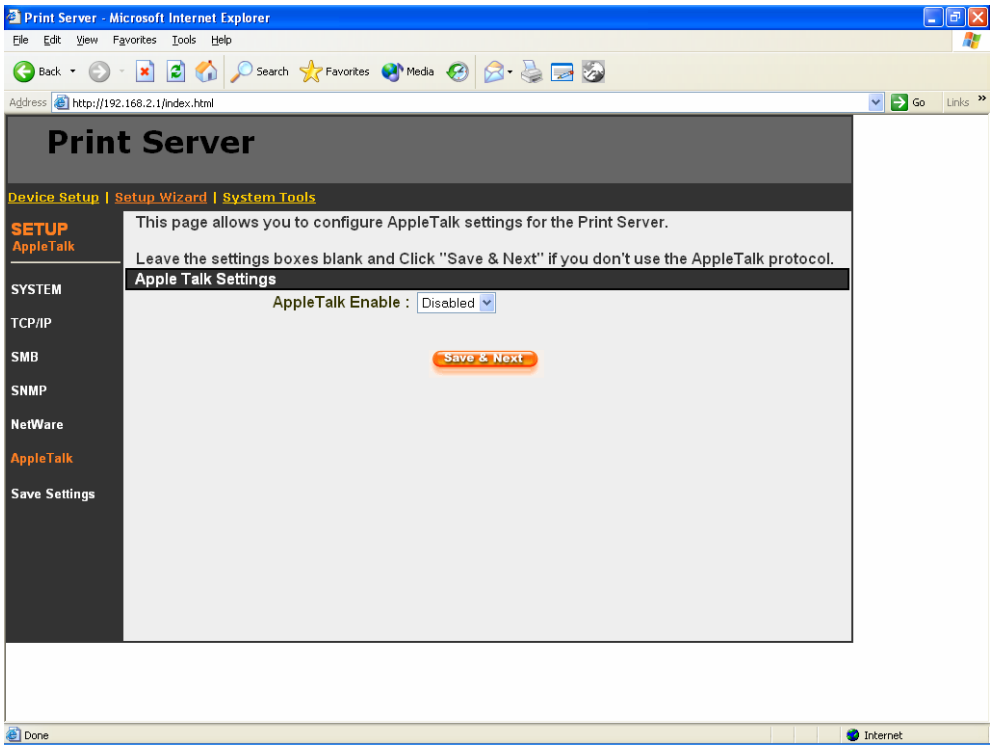
Polling Time is the polling interval of the print server for waiting printing jobs on the NetWare server.

Name of the File Server is the name of the NetWare file server that provides printer queues.

Attached Queue is the name of the printer queue on the NetWare server. The printer queue keeps all printing jobs

waiting on the NetWare server. You have to assign a printer queue for each printer port of this print server.

8.4.6 AppleTalk

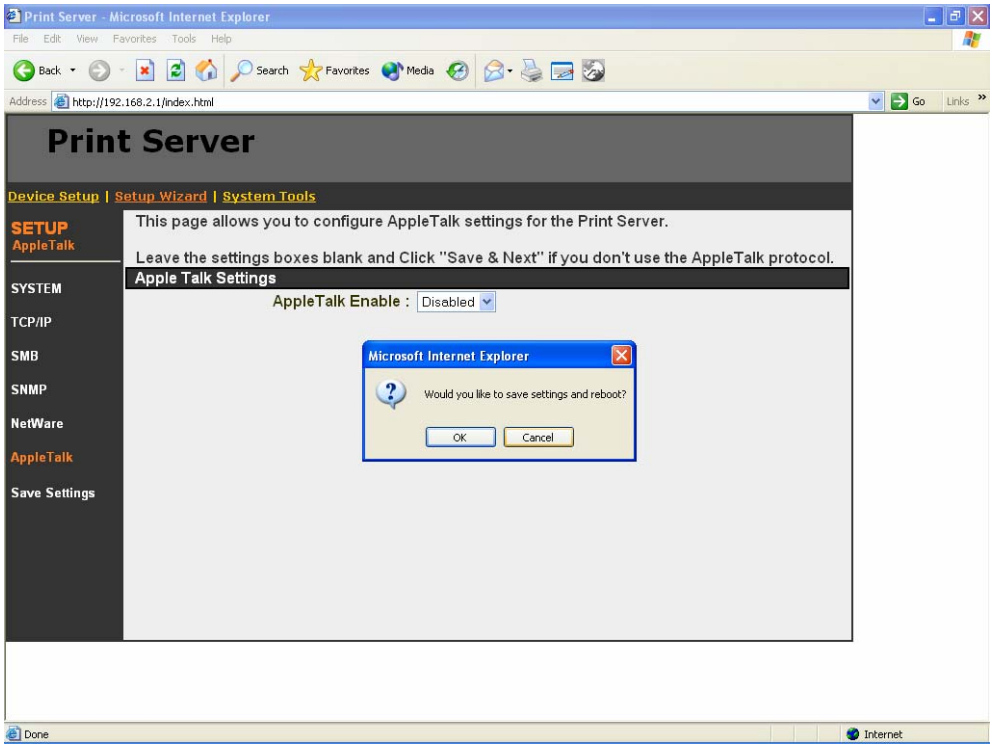


AppleTalk is a data communication protocol often used by Macintoshes. The print server can use these parameters to join the AppleTalk network and share the printer to other AppleTalk workstations. You have to setup the “Zone Name” and “Printer Type” for each printer port of this print server.

Zone Name: Print server has to join zones of AppleTalk before it can be shared to other workstations. Only workstations in the same zone can share the printer. If you want to share the printer to all workstations in all Zones, you should enter only “*” in the “Zone Name” field.

Printer Type, the type of printer attached to each printer port. You can get the printer type from the manufacturer of the printer.

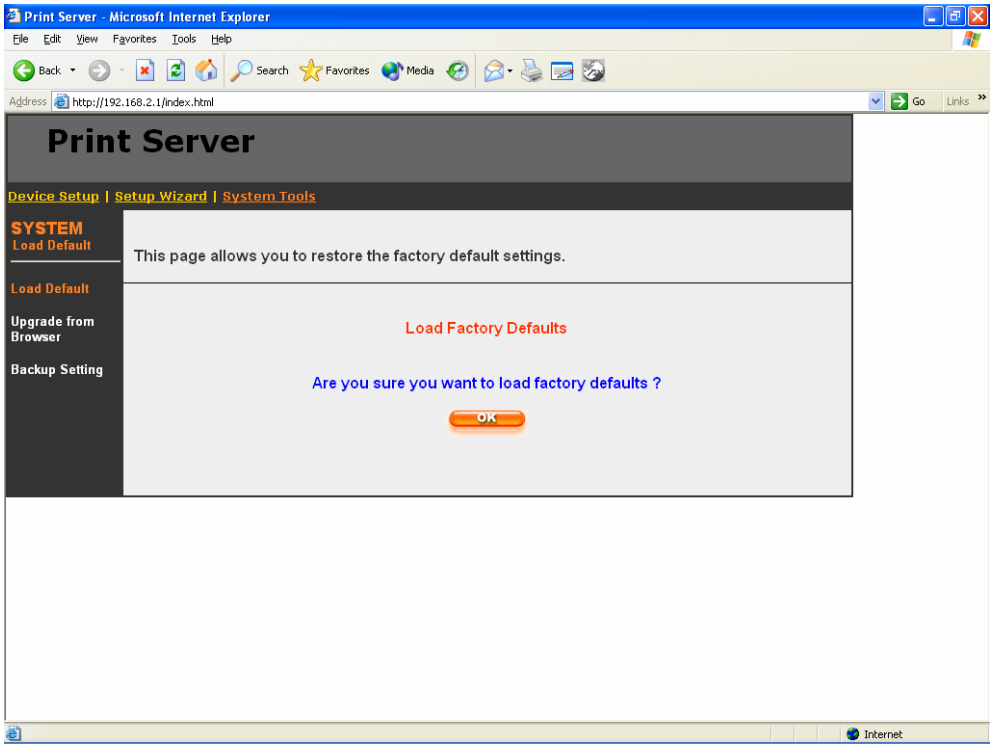
8.4.7 Save Settings



You can click the “Save Settings” to save the settings and restart the system.

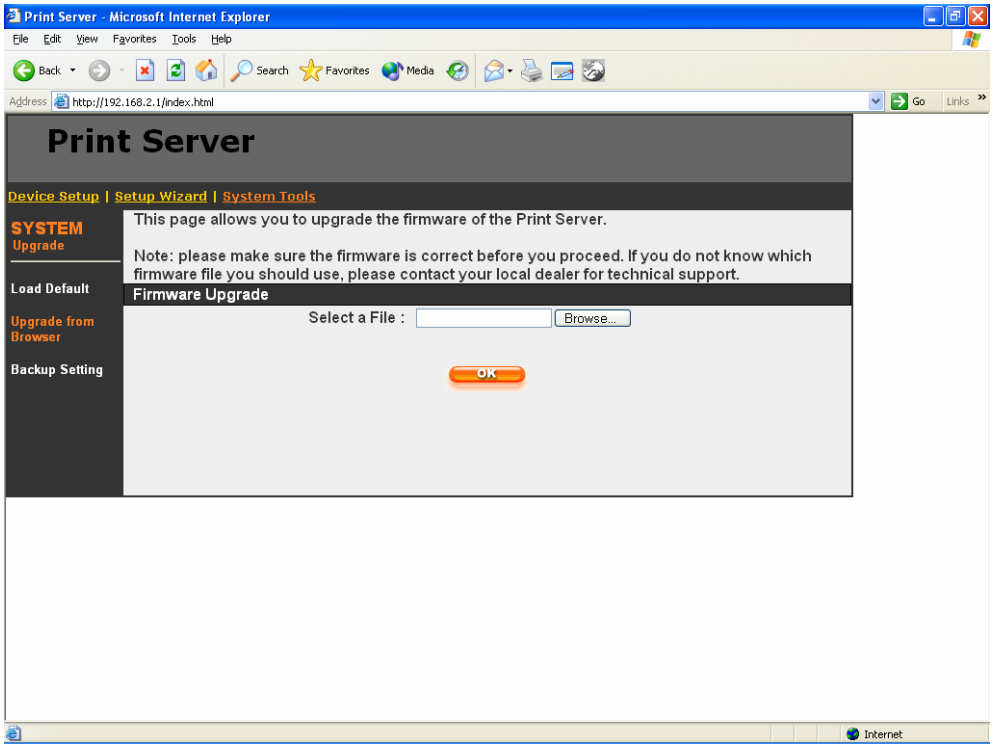
8.5 System Tools

8.5.1 Load Default



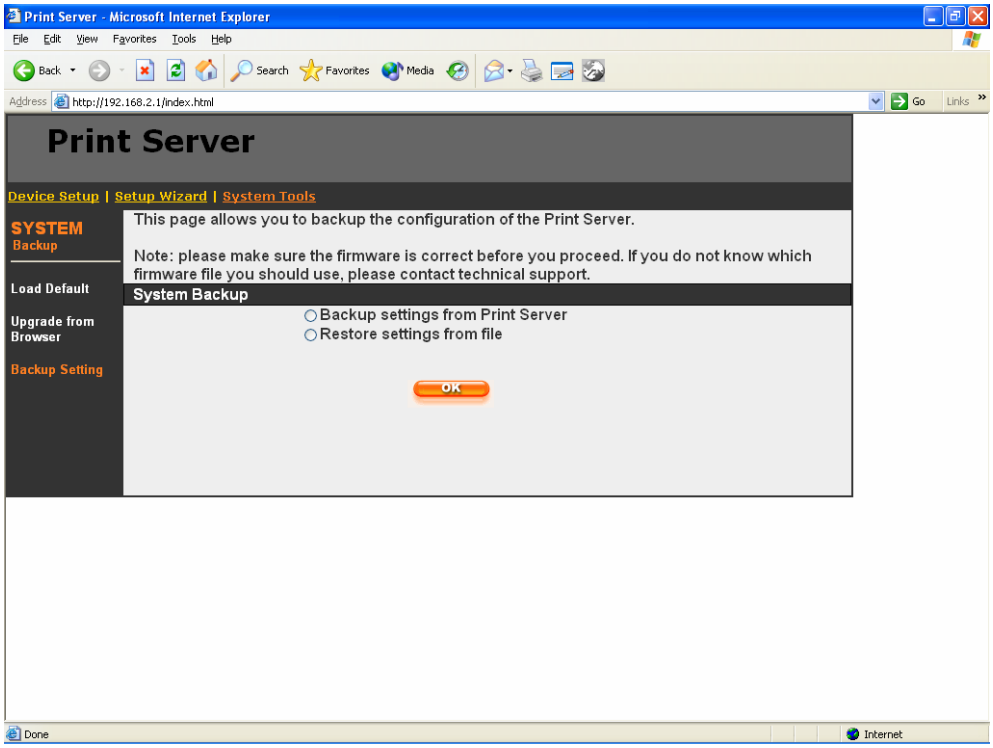
You can use this page to restore the factory default settings. All of your previous setup will be cleared.

8.5.2 Upgrade Firmware


Print Server - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://192.168.2.1/index.html
Go Links
Print Server
Device Setup | Setup Wizard | System Tools
SYSTEM
Upgrade
Load Default
Upgrade from Browser
Backup Setting
This page allows you to upgrade the firmware of the Print Server.
Note: please make sure the firmware is correct before you proceed. If you do not know which firmware file you should use, please contact your local dealer for technical support.
Firmware Upgrade
Select a File :
Browse...
OK
Internet

You can upgrade new firmware for this print server in this page. Click “Browse” to select the new firmware in your storage and then click “OK”, the firmware will be updated in several minutes.

8.5.3 Backup Setting


Print Server - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://192.168.2.1/index.html
Go Links
Print Server
Device Setup | Setup Wizard | System Tools
SYSTEM
Backup
Load Default
Upgrade from Browser
Backup Setting
This page allows you to backup the configuration of the Print Server.
Note: please make sure the firmware is correct before you proceed. If you do not know which firmware file you should use, please contact technical support.
System Backup
Backup settings from Print Server
Restore settings from file
OK
Done
Internet

To backup the print server setting to a “config.bin” file, select “Backup settings from Print Server”. To apply the setting from the backup file, select “Restore settings from file” and specify a file to restore.

9. Telnet Management

9.1 Introduction

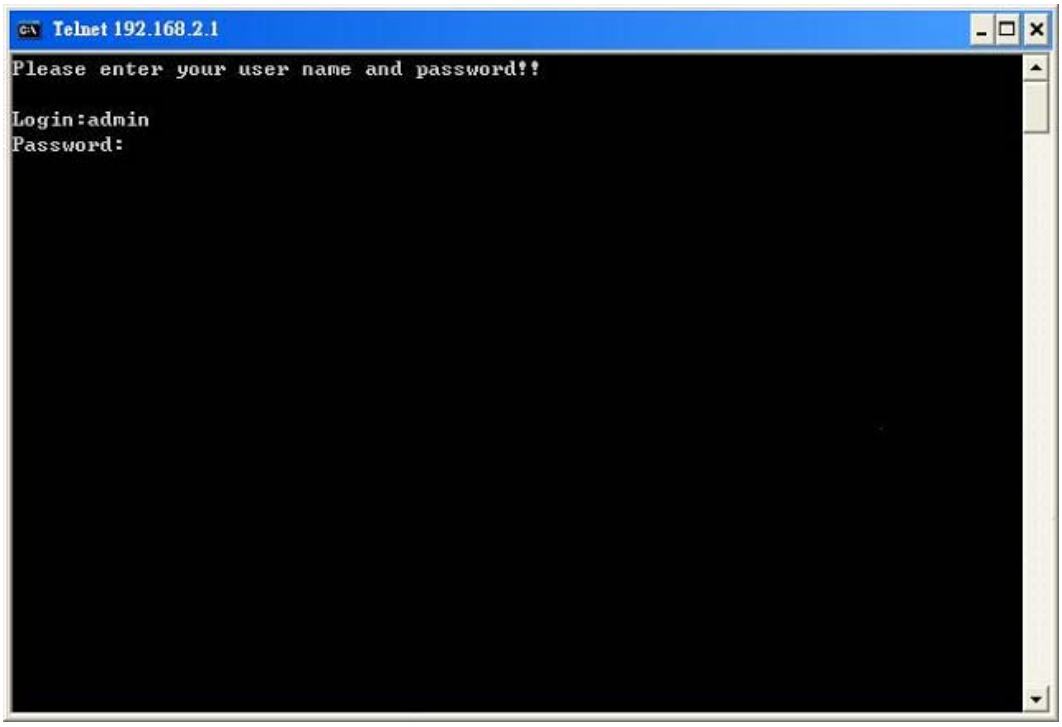
Print server can be configured and managed by Telnet. Through Local Area Network, or even Internet, administrator can easily configure and manage print server's various main functions by a telnet client.

9.2 Login

Execute the Telnet client tool and connect to the print server IP.

telnet 192.168.2.1

Then you will be prompted to enter the username and password.



After you successfully enter the correct username and password, the following prompt will be displayed and you can start to manage this print server by command.

admin#

9.3 Get Setting Values – “get” Command

“get” command is used to get the setting values of this print server. The format of “get” command is as following:

get argument

Then the argument value will be displayed after the command. For example, if I want to get IP address of the print server, I type “get ip” command and the IP value “IP_ADDR=’192.168.2.1’” is displayed:

admin# get ip

IP_ADDR=’192.168.2.1’

If you enter “get” only, the system will list all available arguments of “get” command.

The following table lists all the arguments whose value can be got by “get” command:

Argument	Description	Example
psname	Print server name	admin# get psname PORT1_PS=’PS254896’
password	Login password	admin# get password USER_PASSWORD=’1234’
username	Login username	admin# get username USER_NAME=’admin’
ip	IP of the print server	admin# get ip AP_ADDR=’192.168.2.1’
gateway	Default gateway of the print server	admin# get gateway DEFAULT_GATEWAY=’192.168.2.254’
submask	Subnet mask of the print server	admin# get submask SUBNET_MASK=’255.255.255.0’

Argument	Description	Example
polling	Polling interval (in second) of the print server for waiting printing jobs on the NetWare server	admin# get polling PORT1_POLLTIME=3
aq1	Name of the printer queue on the NetWare server	admin# get aq1 PORT1_QNAME='PQ1'
applezone	The name of AppleTalk zone that this print server joins to	admin# get applezone PORT1_APPLEAONE='*'
printertype1	The type of the printer attached to this print server	admin# get printertype1 PORT1_PRINTTYPE='LaserWriter'
SMBDG	The name of the SMB group name that this print server joins to	admin# get SMBDG SMBD_NAME='default'
SNMPC	The administrator contact information of this print server for SNMP	admin# get SNMPC SNMP_CONTACT='sbdjohn@hotmail.com'
SNMPL	The installed location of this print server for SNMP	admin# get SNMPL SNMP_LOCATION='Room 301'
port1	The port name of this print server	admin# get port1 PORT1_LPTNAME='lpt1'
DHCPS	The DHCP server is enabled or disabled 0: disable 1: enable	admin# get DHCPS DHCPD=0
DHCP	Get dynamic IP by DHCP is enabled or disabled 0: disable 1: enable	admin# get DHCP DYNAMIC_IP=0
appletalk	AppleTalk printing is enabled or disabled 0: disable 1: enable	admin# get appletalk APPLE_ENABLE=0
SMBD	SMB printing is enabled or disabled 0: disable 1: enable	admin# get SMBD SMBD_ENABLE=1
SNMP	SNMP management protocol is enabled or disabled 0: disable 1: enable	admin# get SNMP SNMP_ENABLE=1
IPX	NetWare Bindery printing is enabled or disabled 0: disable 1: enable	admin# get IPX IPX_ENABLE=1
LPD	LPR printing is enabled or disabled 0: disable 1: enable	admin# get LPD LPD_ENABLE=1

Argument	Description	Example
IPP	IPP printing is enabled or disabled 0: disable 1: enable	admin# get IPP IPP_ENABLE=1
RAW	RAW printing is enabled or disabled 0: disable 1: enable	admin# get RAW RAW_ENABLE=1

9.4 Modify Setting Values – “set” Command

“set” command is used to modify the setting values of this print server. The format of “set” command is as following:

set argument_name value

Then the value will be written into the system configuration. For example, if you want to set IP address of the print server to 192.168.2.1, type “set ip ‘192.168.2.1’” command and the IP of the print server will be changed:

admin# set ip ’192.168.2.1’

If you enter only “set”, the system will list all arguments of “set” command and the command format.

The following table lists all the arguments whose value can be modified by “set” command:

Argument	Description	Example
psname	Print server name	set psname ‘PS001’
password	Login password	set password ‘1234’
username	Login username	set username ‘admin’
ip	IP of the print server	set ip ‘192.168.2.1’
gateway	Default gateway of the print server	set gateway ‘192.168.2.254’
submask	Subnet mask of the print server	set submask ‘255.255.255.0’
polling	Polling interval (in second) of the print server for waiting printing jobs on the NetWare server	set polling 3
aq1	Name of the printer queue on the NetWare server	set aq1 ‘PQ1’
applezone	The name of AppleTalk zone that this print server joins to	set applezone ‘*’

Argument	Description	Example
printertype1	The type of the printer attached to this print server	set printertype1 ‘LaserWriter’
SMBDG	The name of the SMB group name that this print server joins to	set SMBDG ‘default’
SNMPC	The administrator contact information of this print server for SNMP	set SNMPC ‘sbdjohn@hotmail.com’
SNMPL	The installed location of this print server for SNMP	set SNMPL ‘Room 301’
port1	The port name of this print server	set port1 ‘lpt1’
DHCPS	Enable or disable the DHCP server. The value should be “disabled” or “enabled”.	set DHCPS disable
DHCP	Enable or disable to get dynamic IP by DHCP. The value should be “disabled” or “enabled”.	set DHCP disable
appletalk	Enable or disable AppleTalk printing The value should be “disabled” or “enabled”.	set appletalk disable
SMBD	Enable or disable SMB printing The value should be “disabled” or “enabled”.	set SMBD enable
SNMP	Enable or disable SNMP management protocol The value should be “disabled” or “enabled”.	set SNMP enable
IPX	Enable or disable NetWare Bindery printing The value should be “disabled” or “enabled”.	set IPX enable
LPD	Enable or disable LPR printing The value should be “disabled” or “enabled”.	set LPD enable
IPP	Enable or disable IPP printing The value should be “disabled” or “enabled”.	set IPP enable
RAW	Enable or disable RAW printing The value should be “disabled” or “enabled”.	set RAW enable

9.5 Other Commands

9.5.1 ipconfig

"ipconfig" command is used to quickly get the IP settings (IP, subnet mask, default gateway) of the print server:

admin# ipconfig

IP_ADDR=192.168.2.1

SUBNET_MASK=255.255.255.0

DEFAULT_GATEWAY=192.168.2.254

9.5.2 reboot

"reboot" command is used to restart the print server:

admin# reboot

9.5.3 exit

"exit" command is used to leave the print server telnet management:

admin# exit

9.5.4 help

"help" command is used to list all telnet management commands of the print server:

admin# help

set argument value

get argument

ipconfig

reboot

exit

10. IPP Printing

10.1 Introduction

IPP (Internet Printing Protocol) Printing provides a convenient way of remote printing service by TCP/IP. The print server can support IPP printing by default. It is needless to do any setting. Any PC that can support IPP printing, for example Windows 2000/XP, can directly uses the print server by IP. By using the IPP printing, you can share the printer to all the PC's that can access the print server by IP. You can even share your printer to Internet users.

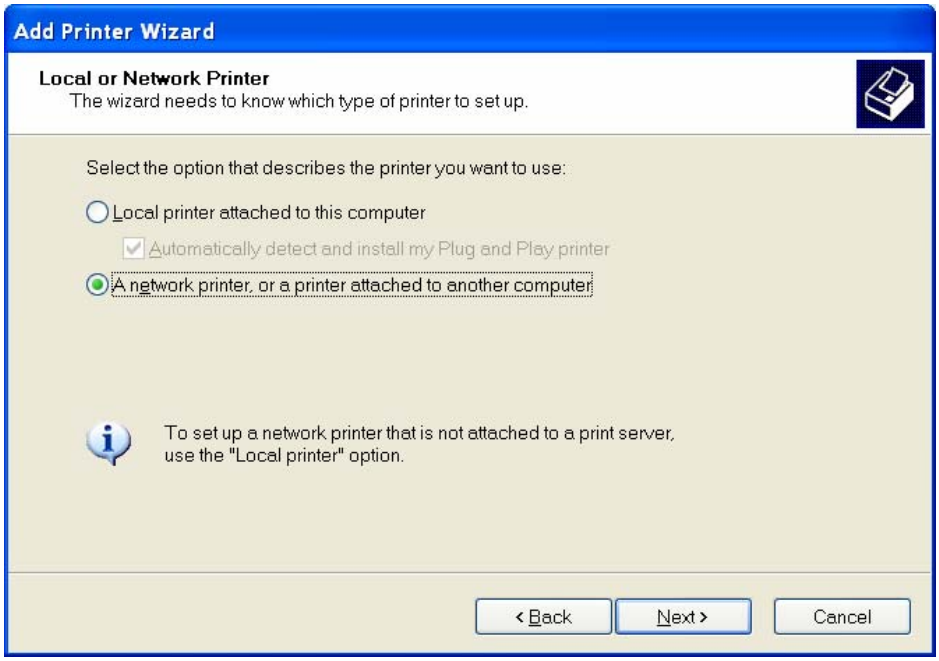
10.2 System Setup

10.2.1 Print Server Side

It is needless to do any setting on the print server side. Make sure the print server has correct IP settings. If you want to share the printers to Internet users, you have to set a real IP to the print server. You also have to make sure that any gateway, router or firewall does not block IPP protocol if you have these gateway devices installed in your network.

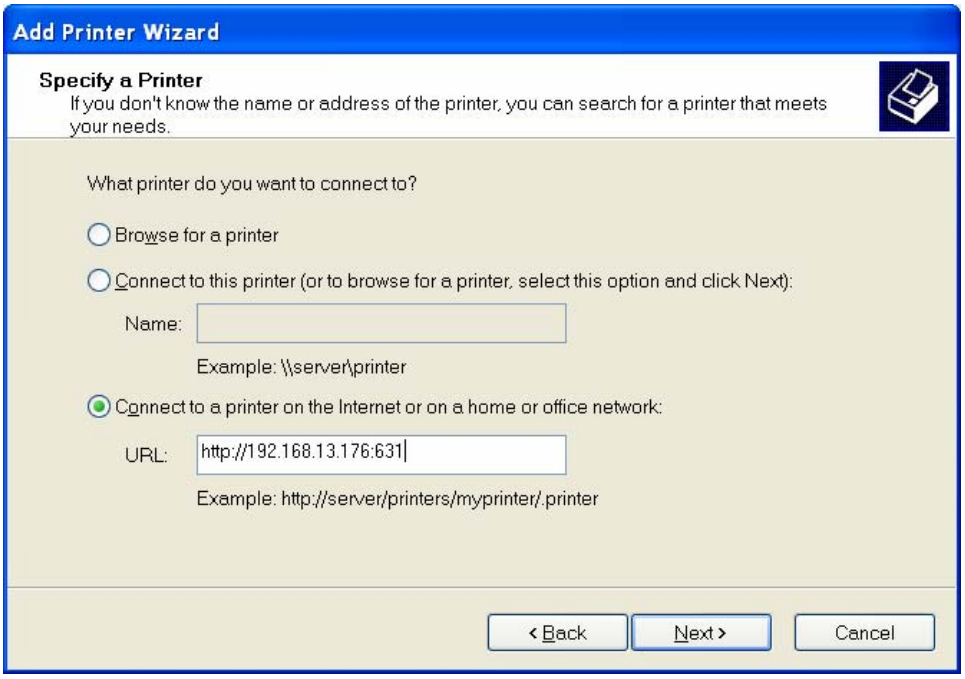
10.2.2 Client Side

You only need to perform Window's standard ***Add New Printer*** procedure, select ***"Network Printer"*** shown in the screen below and click "Next >".


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

Select "Connect to a printer on the Internet or on a home or office network" and enter the URL of print

server. The URL format is "http://IP:631/LPT_PORT". The IP should be the print server's IP. LPT_PORT is the port name of print server that your print is connected to. For the one port print server, the port name is "lpt1". For the three port print server, the port name is one of the three – lpt1, lpt2 or lpt3. The last number 631 is IPP standard port number. One example of the URL is "http://192.168.12.13:631/lpt1". After entering the URL of print server, click "Next >" and complete the configurations afterwards to access the shared printer.

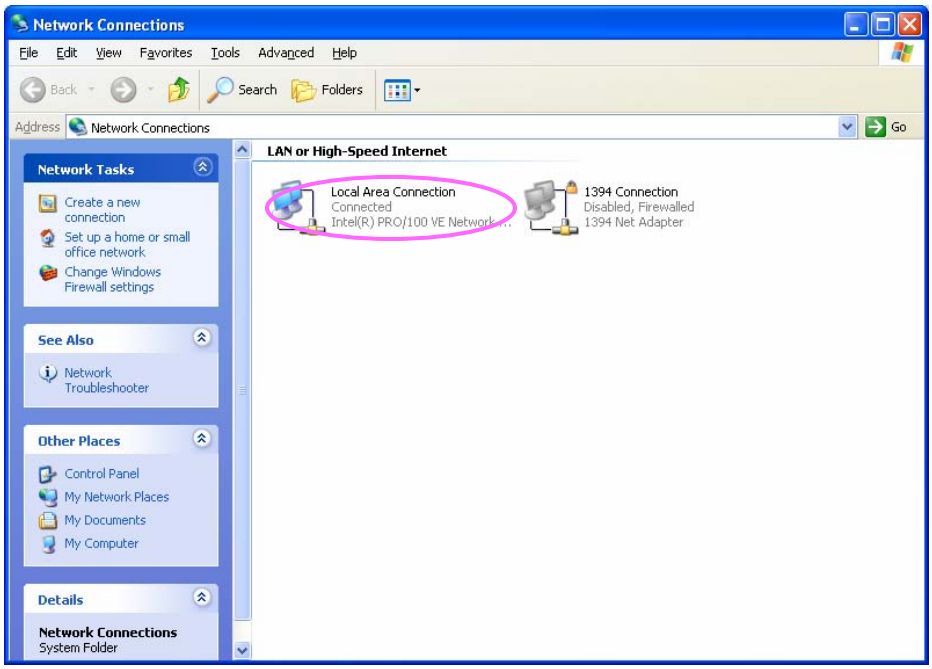

Add Printer Wizard
Specify a Printer
If you don't know the name or address of the printer, you can search for a printer that meets your needs.
What printer do you want to connect to?
Browse for a printer
Connect to this printer (or to browse for a printer, select this option and click Next):
Name:
Example: \\server\printer
Connect to a printer on the Internet or on a home or office network:
URL:
http://192.168.13.176:631
Example: http://server/printers/myprinter/.printer
< Back
Next >
Cancel

11. Windows XP SP2 Setup

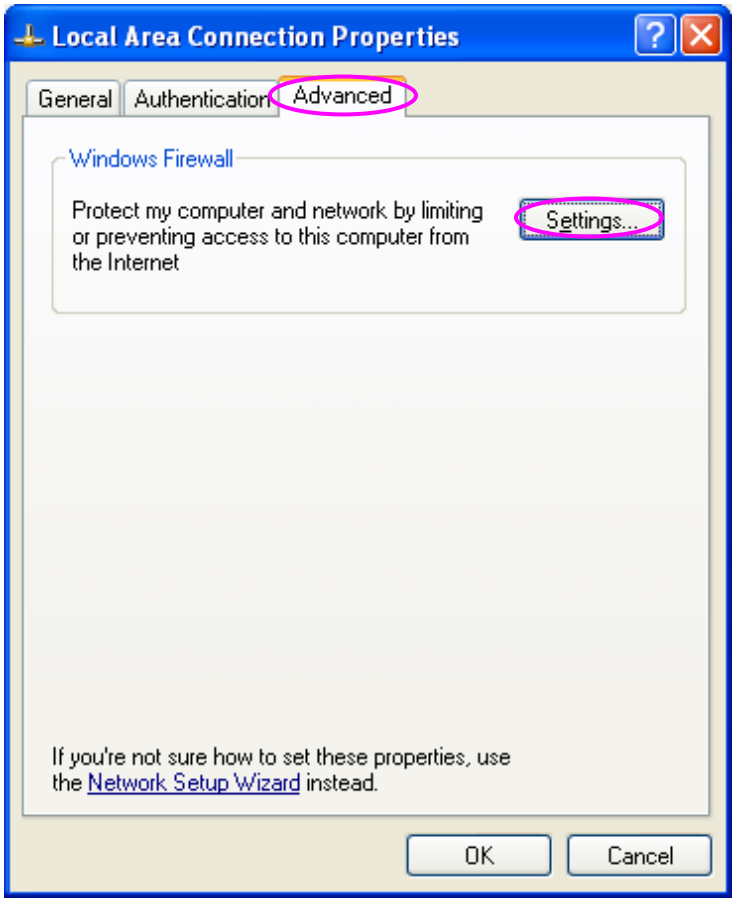
In Windows XP SP2, you may not find any print server listed on the “Available Ports” in “Network Ports Quick Setup”. That is because the XP SP2’s firewall blocks the communication of between the utility and the printer server. If you encounter the problem, please follow the steps below.

Step1. Click “Start”, choose “Settings” and select “Network Connections”.

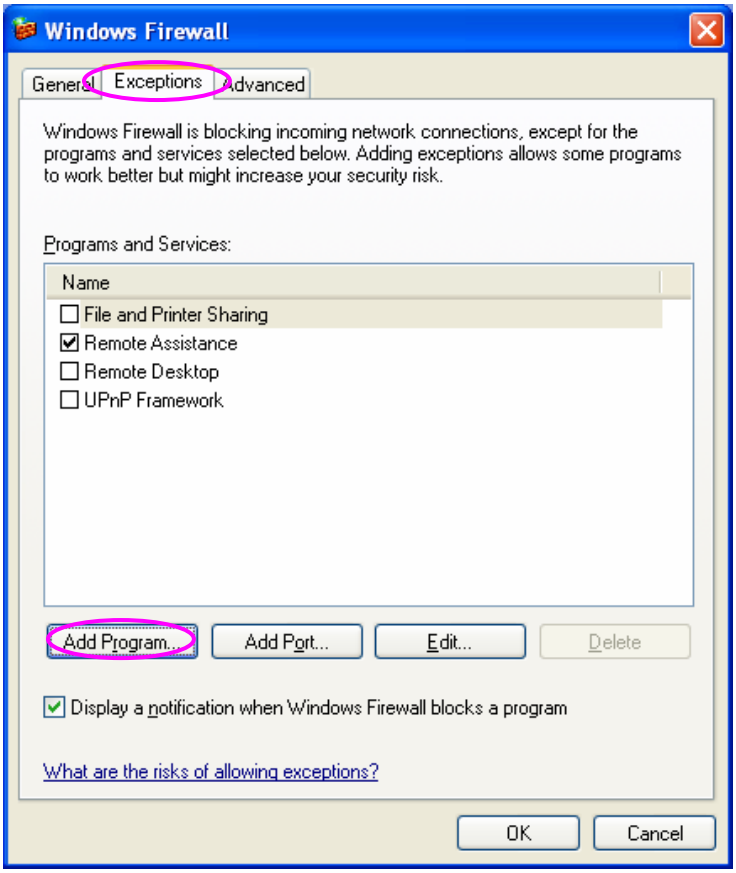
Step2. Right click “Local Area Connection” and select “Properties”.



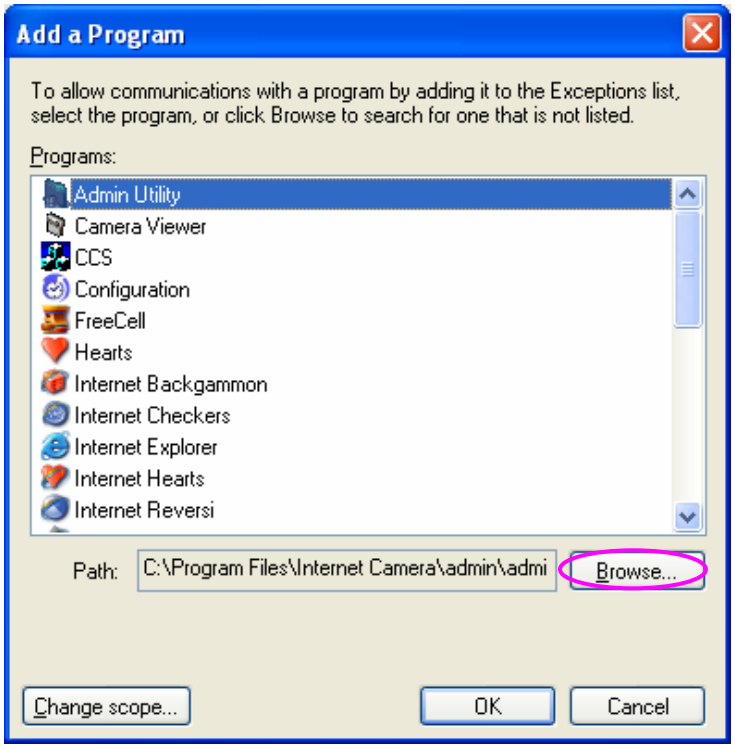
Step3. Select “Advanced” tab and click “Settings...”.


Local Area Connection Properties
General
Authentication
Advanced
Windows Firewall
Protect my computer and network by limiting or preventing access to this computer from the Internet
Settings...
If you're not sure how to set these properties, use the Network Setup Wizard instead.
OK
Cancel

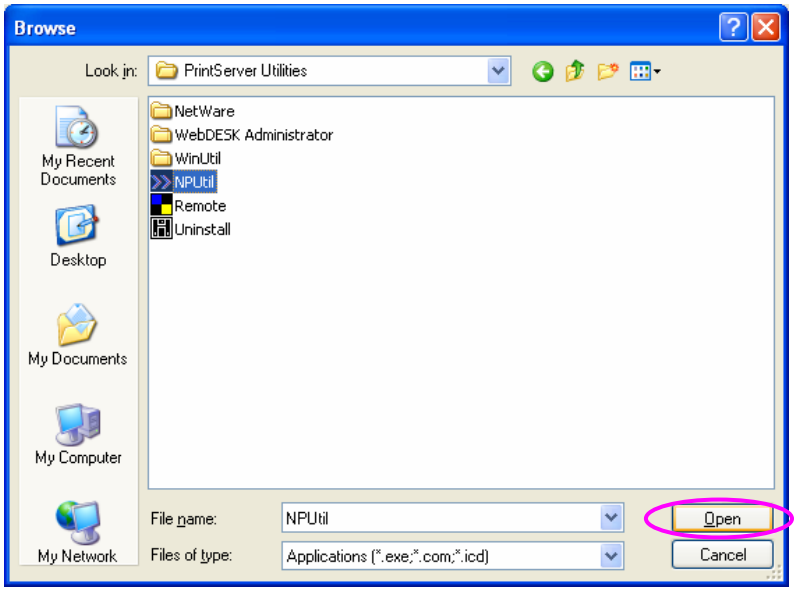
Step4. Select “Exceptions” tab and click “Add Program…”.



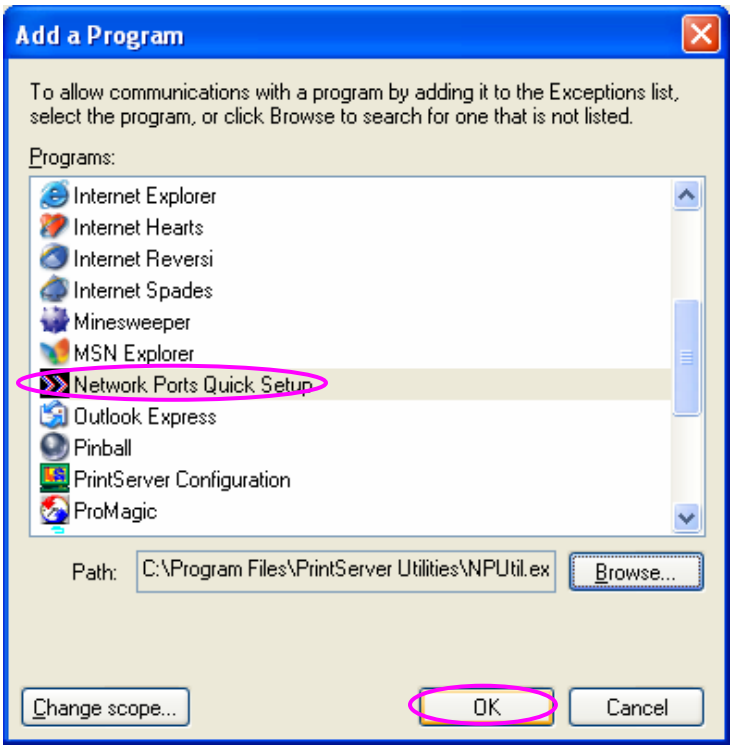
Step5. Click “Browse” to add a new program.



Step6. Open the “NPUtil” file from “C:\Program Files\PrintServer Utilities” (where C:\ is the system drive).



Step7. A new program “Network Ports Quick Setup” is displayed in the list, click “Ok”.



Step8. Click “Ok”. You have completed the setting. The Windows XP SP2 will allow the incoming network connections activated by the program.